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Curriculum Vitae

JOHN HART, JR., M.D.

OFFICE:

John Hart, Jr., M.D.
Distinguished Chair in Neuroscience
Professor of Behavioral and Brain Sciences
University of Texas at Dallas
Professor of Neurology and Psychiatry
University of Texas Southwestern Medical Center

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EDUCATION:

B.A., 1979	The Johns Hopkins University, 1975-1979. Major: Psychology.
M.D., 1983	University of Maryland School of Medicine, 1979-1983.

**POSTGRADUATE
MEDICAL
TRAINING:**

1983-1984	Medical Internship, Union Memorial Hospital, Baltimore, MD.
1984-1986	Assistant Resident in Neurology, The Johns Hopkins Hospital.
1986-1990	Fellow in Cognitive Neurology and Neuropsychology, Dept. of Neurology, The Johns Hopkins Hospital. Advisors: Barry Gordon, M.D., Ph.D. & Ola Selnes, Ph.D.
1995-1996	Assistant Resident and Resident in Neurology, The Johns Hopkins Hospital

**FACULTY
POSITIONS:**

current: 2005-	Distinguished Chair in Neuroscience Professor of Behavioral and Brain Sciences University of Texas at Dallas
2006-	Professor, Departments of Neurology and Psychiatry, University of Texas Southwestern Medical Center

2010- Professor, Graduate School Faculty, Clinical Psychology Program, University of Texas Southwestern Medical Center

2016- Affiliate Professor, Dept. of Bioengineering, Erik Jonsson School of Engineering and Computer Science, University of Texas at Dallas

previous:
2005-2016 Jane and Bud Smith Distinguished Chair, Medical Science Center for BrainHealth, University of Texas at Dallas

2005-2006 Clinical Associate Professor, Department of Psychiatry, University of Texas Southwestern Medical Center

2001-2005 Associate Professor, Depts. of Geriatrics, Neurology, and Radiology, University of Arkansas for Medical Sciences

2003-2005 Associate Professor, Department of Audiology and Speech Pathology, College of Health Related Professions, University of Arkansas for Medical Sciences

1993-2001 Assistant Professor, Department of Neurology, The Johns Hopkins University School of Medicine (On LOA 10/1/95-11/30/96).

1996-2001 Assistant Professor (Joint Appointment), Department of Cognitive Science, The Johns Hopkins University

1990-2001 Associate Member, The Zanvyl Krieger Mind/Brain Institute, The Johns Hopkins University.

1990-1993 Research Associate, Dept. of Neurology, The Johns Hopkins University School of Medicine.

STAFF POSITIONS:

current:
2006- Neurology Staff, University of Texas Southwestern Medical Center, Zale Lipshy Hospital, Clements Hospital

previous:
2004-2005 Associate Director, Clinical Programs and Evaluation, GRECC of CAVHS

2001-2005 Director, Laboratory of Cognition & Brain Imaging, Donald W. Reynolds Center on Aging, UAMS

2002-2005 Staff Physician, Central Arkansas Veterans Healthcare System

2002-2005 Physician Researcher, GRECC, CAVHS

2002-2005 Director of the Geriatric Memory Disorders Clinic, CAVHS

1998-2001 Deputy Director, Division of Cognitive Neurology and Neuropsychology, Department of Neurology, The Johns Hopkins University

1997-2001 Neurology Staff, The Johns Hopkins Hospital

1998-2001 Chairman, Protocol Review Committee, F. M. Kirby Research Center for Functional Brain Imaging, Kennedy Krieger Institute

**MEDICAL
LICENSURE:**

Maryland D46185 (exp. 9/30/24); Arkansas E-3591 (exp. 5/31/24); Texas N0583 (exp. 11/30/23)

**SOCIETY
MEMBERSHIPS:**

American Academy of Neurology (1987-)
American Assoc. for the Advancement of Science (1987-)
Society for Behavioral and Cognitive Neurology (1987-)
New York Academy of Sciences (1993-)
Society for Neuroscience (1994-)
Cognitive Neuroscience Society (2001-)

HONORS:

1979 Psychology Departmental Honors, The Johns Hopkins University

1982 Dean's Fellowship for Research, University of Maryland School of Medicine

1983 The William Alexander Hammond Award for Excellence in Neurology, University of Maryland School of Medicine

TEACHING:

1991-2001 Lectures in "Introduction to the Human Brain" (The Johns Hopkins University)

1992-1994;
2000-2001 Lectures in the "Neurology Basic Clerkship" (The Johns Hopkins University School of Medicine)

1993-2001 Lectures in "Human Neuropsychology" (The Johns Hopkins University)

1995-2001 Lectures in "Language and Mind" (The Johns Hopkins University)

1996-2001 Lectures in "Neurology Resident Clinical Teaching Conferences" (The Johns Hopkins University School of Medicine)

1996-2001	Lectures in "Neuroscience I: Cognitive Neuroscience" (The Johns Hopkins University)
1996-2001	Basic Science Medical Student Lectures in "Neurology/Neuropathology Course" (The Johns Hopkins University School of Medicine)
1996-2001	Neuropsychology Research Tutorial (The Johns Hopkins University)
1997-1998	Clinical medical student teaching in "Introduction to Clinical Medicine" (The Johns Hopkins University School of Medicine)
1997-2001	Clinical medical student teaching in "Neurology Basic Clerkship" (The Johns Hopkins University School of Medicine)
1997-2001	Lectures in "Topics in Neuroscience" (The Johns Hopkins University)
1997-2001	Elective in Cognitive Neurology (Neurology residents, The Johns Hopkins Hospital)
1997-2001	Elective in Language, Memory, and Higher Order Vision (The Johns Hopkins University School of Medicine)
1998-2001	Clinical medical student teaching in "Neurology Clinical Skills" (The Johns Hopkins University School of Medicine)
2000-2001	Basic Science Medical Student Lectures in "Neuroscience Course" (The Johns Hopkins University School of Medicine)
2002-2005	Clinical medical student teaching in Geriatric Medical Student Rotation (University of Arkansas for Medical Sciences)
2002-2005	Geriatric fellow lectures in mental status examination and dementia (University of Arkansas for Medical Sciences)
2002-2005	Neurology resident lectures in mental status, dementia, memory (University of Arkansas for Medical Sciences)
2004-2005	Neurology Clerkship, Clinical Medical Student Teaching (University of Arkansas for Medical Sciences)
2006-2008	"Neural Basis of Semantic Memory," Graduate Course, University of Texas at Dallas
2006-2008	Academic Rounds Attending, Department of Psychiatry (University of Texas Southwestern Medical Center)

2008-	“Neural Correlates of Human Cognition: Functional Localization,” Graduate Course, University of Texas at Dallas
2006-	Research in Behavioral and Brain Sciences, University of Texas at Dallas
2006-	Directed Research in Behavioral and Brain Sciences, University of Texas at Dallas
2006-	Individual Study in Behavioral and Brain Sciences, University of Texas at Dallas
2016-	Dissertation in Neuroscience, University of Texas at Dallas
2016-	Independent Study, University of Texas at Dallas
2019-	Thesis Research, University of Texas at Dallas
2019-	Individual Instruction in Biomedical Engineering. University of Texas at Dallas
2019-21	Seminar in Hearing and Speech Science, Graduate Course, University of Texas at Dallas
2021-	Research in Speech, Language, and Hearing Sciences, University of Texas at Dallas
2022-	Neural Correlates of Human Cognition, University of Texas at Dallas

Post-Doctoral Fellows trained (Neuroscience Research and Clinical):

1999-2001	Lauren Moo, M.D.
1999-2001	Scott Slotnick, Ph.D.
2004-2005	Juan Li, Ph.D.
2006-2008	Jacque Gamino, Ph.D.
2007-2009	Gail Tillman, Ph.D.
2008-2010	Raksha Anand Mudar, Ph.D.
2008-2010	Elizabeth Kanter Bartz, Ph.D.
2013-2014	Marisara Dieppa, M.D.
2015-2016; 2020-23	H-Sheng Chiang, M.D., Ph.D.
2016-2017	Bambi DeLaRosa, Ph.D.

Graduate student supervised

2006-2007	Peter Fauver
2007-2009	Khamid Bhadikirov
2009-2010	Leonardo Estevez
2011-2012	Leah Bowen
2011-2012	Julie Van

2012-2019	Justin Eroh
2012-2013	Lindy Loneman
2012-2013	Zorica Simic
2012-2017	Penelope Jones
2013-2013	Laura Bobzien
2013-2016	Lindy Fields
2018-2020	Sheila Moseni
2019-2020	Kathrine Makovec
2019-2020	Carolyn Bodus
2019-2020	Jensen Kidd
2019-2020	Uchenna Onyems
2019-2020	Khadija Saifullah
2019-2021	Sarah Diesing
2019-2021	Elena Keltner
2020-2021	Vivek Krishnan
2020-	Katelyn Lucas (Ph.D. Committee Chair)
2020-2022	Anna Sleeman
2021	Eunsol Noh
2021-	Paulina Devora (Ph.D. Committee Chair)
2021-2022	Sydney Michener
2021-2022	Zobaida Shakur
2022	Austin Chaney
2022	Celia Higginbotham
2022-	Tawny Meredith-Duliba (Ph.D. Committee)
2023-	Abbey Thomas (Ph.D. Committee)
2022-2023	Ashna Adhikari
2022-2023	Mika Esquillo
2023-	Christine Abasi
2023-	Paula Castellanos Carmona

Undergraduate degree students supervised (Neuroscience Research):

1996	Lauren Roginski
1997-99	Tiffini Smith
1999-2000	Felix Yu
2006-10	Matthew Brier
2009-12	Shehznaz Baqui
2008-10	Rajen Patel
2009-10	Nistha Jajal
2009-10	Michael Lugo
2010-2011	Ben Kunze
2010-2011	Shadi Lavasani
2010-2011	Megha Bhatia
2010-2011	Kim Vu
2010-2011	Najam Siddique
2010-2012	Rigoberto Hernandez
2010-2012	Briana Flores
2010-2013	Seth Mansinghani
2011-2012	Palak Patel
2011-2012	Robert Bell
2011-2012	Carissa Dees
2011-2015	Demi Krieger
2012-2015	Athula Pudhiyidath

2013-2014	Gregory Frank
2012-2017	Scott Shakal
2014-2015	Jihyeon Choi
2015-2015	Ryan Tychinkski
2015-2016	Kylee Yeatman
2015-2016	Mohamed Mahmoud
2015-2016	Rebecca Border
2015-2016	Sahithi Kaza
2015-2016	Shezai Padani
2016-2017	Rachel O’Hair
2016-2017	Reana Limones
2018	Emily Williams
2019	Nikita Prabahkar
2019-2020	Mika Esquillo
2019-	Riya Kumar
2020-2022	Caroline Reckart
2020-2023	Crista Thyvelikakath
2022	Christopher Snell
2023-	Devadity Ray
2023-	Borna Afkhamai
2023-	Venus Arian
2023-	Sneha Sharma
2023-	Irene Jacob
2023-	Shreya Chandna
2023-	Riya Shipurkar
2022-	Tonya Kola
2023-	Matthew Bertelson
2023-	Madison Morris
2023-	Saad Tanwir
2022-	Maria Palacios
2023-	Samhita Tadi

Medical students supervised (Neuroscience Research):

1997-99	W. Leo Sugrue
2009	Colin Donovan

Residents supervised for research tutorial:

1996-97	Ellen Deibert, M.D.
1998-99	Lauren Moo, M.D., Isaac Silverman, M.D.
2017-2019	Niyatee Samudra, M.D.
2019-2020	Hsueh-Sheng Chiang, M.D., Ph.D.

DOCTORAL COMMITTEES:

1996	"Development of nuclear magnetic resonance techniques For functional neuroimaging in human stroke," Brian J. Soher, Ph.D., Department of Biomedical Engineering, The Johns Hopkins University.
1996	"The influence of semantic representations on arithmetic fact," John Whalen, Ph.D., Department of Cognitive Science, The Johns Hopkins University.

- 2006 “The Effects of the Female Menstrual Cycle on Hemispheric Asymmetry in Dichotic Listening,” Gail Tillman, Ph.D., School of Behavioral and Brain Sciences, The University of Texas at Dallas.
- 2008 “Differences between GIST and Detail Processing,” Raksha Anand, Ph.D., School of Behavioral and Brain Sciences, The University of Texas at Dallas.
- 2008 “Semantic Priming Effects Across the Lifespan: an ERP Study,” Jyutika Mehta, Ph.D., School of Behavioral and Brain Sciences, The University of Texas at Dallas.
- 2008 “Dimensions of Discourse: Diagnostic, Neuroimaging, and Neuropsychological Correlates in Early Frontotemporal Lobar Degeneration,” Stephanie Chiu Wong, Ph.D., School of Behavioral and Brain Sciences, The University of Texas at Dallas.
- 2009 “Effects of Middle Age on Interaural Asymmetry in a Competing Speech Task,” Tara Davis, School of Behavioral and Brain Sciences, The University of Texas at Dallas.
- 2011 “Can we go the distance to predict how the brain represents the world? A distance-based partial least squares regression approach,” Anjali Krishnan, School of Behavioral and Brain Sciences, The University of Texas at Dallas.
- 2011 “Cross-sectional differences in brain activity supporting working memory,” Laura Dewey, Clinical Psychology, University of Texas Southwestern Medical Center.
- 2014 “Fluid Intelligence: A multiprocess framework for individual differences, item difficulty, and neural network dynamics,” Ehsan Shokri Kojori, School of Behavioral and Brain Sciences, The University of Texas at Dallas.
- 2014 “Imageability and word and class: An ERP investigation of nouns, verbs, and adjectives,” Lynda Sides, School of Behavioral and Brain Sciences, The University of Texas at Dallas.
- 2015 “Anatomical damage and cognitive deficits in herpes encephalitis,” Jeremy Strain, School of Behavioral and Brain Sciences, The University of Texas at Dallas. (Ph.D. Committee Chair).
- 2015 “The neurophysiological mechanisms of semantic object memory retrieval.” Hsueh-Sheng Chiang, School of Behavioral and Brain Sciences, The University of Texas at Dallas. (Ph.D. Committee Chair).

- 2015 “Neural correlates of category by valence visual object organization in Posttraumatic Stress Disorder: An fMRI study,” Neena Rao, School of Behavioral and Brain Sciences, The University of Texas at Dallas. (Ph.D. Committee Chair).
- 2015 “Electrophysiological dynamics during visual threat processing in combat-related Post-Traumatic Stress Disorder,” Bambi DeLaRosa, School of Behavioral and Brain Sciences, The University of Texas at Dallas. (Ph.D. Committee Chair).
- 2016 “The Effects of Pairing Vagus Nerve Stimulation with Motor Training on Functional Recovery and Cortical Map Plasticity after Traumatic Brain Injury,” David Pruitt, School of Behavioral and Brain Sciences, The University of Texas at Dallas.
- 2016 “The neural correlates of encoding memory associations,” Jenny Wong, School of Behavioral and Brain Sciences, The University of Texas at Dallas.
- 2017 “Evoking automated word reading,” Anna Middleton, School of Behavioral and Brain Sciences, The University of Texas at Dallas.
- 2017 “Identifying differences in the neural correlates underlying semantic and syntactic development,” Julie Schneider, School of Behavioral and Brain Sciences, The University of Texas at Dallas.
- 2018 “The Effect of Transcutaneous Occipital Nerve Stimulation on a Core Brain Network Via Functional Connectivity,” Hye Bin Yoo, School of Behavioral and Brain Sciences, The University of Texas at Dallas.
- 2018 “Effect of Vagus Nerve Stimulation on Extinction of Conditioned Fear,” Lindsey Noble, School of Behavioral and Brain Sciences, The University of Texas at Dallas.
- 2018 “Condition Monitoring Techniquet of Permanent Magnet Synchronous Motors,” Mohsen Zafarani, Electrical Engineering, Erik Jonsson School of Engineering and Computer Science (outside Chair)
- 2018 “Emerging Network Connectomics in Phantom Sound Perception,” Anusha Mohan, School of Behavioral and Brain Sciences, The University of Texas at Dallas.
- 2018 “Theta Entrainment to Modulate Cognitive Control of Language Functions,” Julie Fratantoni, School of Behavioral and Brain Sciences, The University of Texas at

- Dallas. (Ph.D. Committee Chair).
- 2019 “The Neural Correlates of Recollection and Post-Retrieval Monitoring in Younger and Older Adults,” Erin Horne, School of Behavioral and Brain Sciences, The University of Texas at Dallas.
- 2019 “The Role of the Nucleus Accumbens in Tinnitus,” Jeffrey Hullfish, School of Behavioral and Brain Sciences, The University of Texas at Dallas. (Ph.D. Committee Chair).
- 2019 “The Time Course of Meaning Construction with Varying Expectations,” Matthew Kmiecik, School of Behavioral and Brain Sciences, The University of Texas at Dallas.
- 2020 “Bolder than BOLD: Investigating how age-related changes in the neurophysiological underpinnings of fMRI signal vary with task frequency,” Monroe Turner, School of Brain and Behavioral Sciences, The University of Texas at Dallas.
- 2020 “Investigating the functional role of medial prefrontal cortex during memory retrieval using high-definition transcranial direct current stimulation,” Yuefeng Huang, School of Brain and Behavioral Sciences, The University of Texas at Dallas. (Ph.D. Committee Co-Chair)
- 2020 “Neuropsychological Functioning in Aging NFL Retirees,” Jeff Schaffert, Department of Psychology, The University of Texas Southwestern Medical Center.
- 2021 “Characterizing the Link Between Behavior and Neurobiology of Verbal Working Memory in Young Adults With and Without Developmental Language Disorder,” Amy Berglund-Barraza, School of Brain and Behavioral Sciences, The University of Texas at Dallas.
- 2021 “Neural Oscillations Underlying Automatic Word Reading,” Sonali Poudel, School of Brain and Behavioral Sciences, The University of Texas at Dallas.
- 2022 “Effects of Age on Neural Correlates of Episodic Encoding and Brain Structure, and their Relation to Cognitive Performance,” Song Liu, School of Brain and Behavioral Sciences, The University of Texas at Dallas.
- 2022 “The Cognitive, Neurophysiologic and Connectivity Effects of Multiple Sclerosis on Information Processing Speed and Memory,” Mark Zuppichini, School of Brain and Behavioral Sciences, The University of Texas at Dallas.
- 2022 “Effects of Transcranial Magnetic Stimulation on Individual Functional Brain Networks,” Phillip Agres, School of Brain and Behavioral Sciences, The University of Texas at Dallas.

2022	“Multiple Sclerosis and Healthy Aging: A Comparative Analysis of Structure and Function,” Dema Abdelkarim, School of Brain and Behavioral Sciences, The University of Texas at Dallas
2022	“Development and Validation of a New naming Task: The Southwestern Item Fluency Test (SWIFT),” Chase Presley, Department of Clinical Psychology, The University of Texas Southwestern Medical Center at Dallas
2023	“Semantic Interference and Facilitation: The Role of Feature Cues and Category in Naming,” Christine Dugas, School of Brain and Behavioral Sciences, The University of Texas at Dallas (Ph.D. Committee Chair)
2023	“Convergent and Divergent Patterns Between Age-Differential fMRI BOLD Blood Flow, and Oxygen Metabolism During Parametric Task Performance” Yuguang Zhao, School of Brain and Behavioral Sciences, The University of Texas at Dallas
2022 (pending)	“Sensorimotor Network Contributions to Rhythm, Syntax, and Domain-general Cognitive Processing,” Matthew Heard, School of Brain and Behavioral Sciences, The University of Texas at Dallas

COMMITTEES:

2021-	External Advisory Committee, South Texas Alzheimer’s Disease Research Center (ADRC), University of Texas Health San Antonio and UT Rio Grande Valley
2021	Search Committee, Behavioral Neurology, UTSW
2021-	Faculty Personnel Review Committee, BBS, UTD
2019-	Norman Geschwind Prize in Behavioral Neurology Scientific Award Workgroup, American Academy of Neurology
2018-2019	Recruitment and Admissions Committee for Cognition and Neuroscience Program (RAC-CN), The University of Texas at Dallas
2016-2018	Committee on Qualifications, The University of Texas at Dallas
2016-2018	Faculty Personnel Review Committee, BBS, UTD
2014-2017	AAN Annual Meeting Scientific Committee, Topic Chair

2013-2014	Representative of UTD, UT System Neuroscience Council
2012-	Faculty Promotions Committee, Department of Neurology, University of Texas Southwestern Medical Center
2011	Testified to Texas House Public Health Committee on behalf of concussion bill HB2038
2010	AAN representative presenting the diagnostic codes for Corticobasal Degeneration, Visual Agnosia, Prosopagnosia, Simultagnosia to ICD panel at CMMS
2009	AAN Media Expert for Behavioral Neurology, Dementia/Cognitive Decline/Aging and Hyperactivity
2009	Texas State Plan on Alzheimer's Disease Committee
2008-2009	VA Advisory Committee on Gulf War Veterans to the Secretary of the Veterans Administration (Presidential-Appointed Committee)
2008-2010	Aging, Dementia, and Cognitive Neurology Topic Work Group, Education Committee, American Academy of Neurology
2007	Coding Subcommittee, Medical Economics and Management Committee, American Academy of Neurology
2007	Medical Economics and Management Committee, American Academy of Neurology
2007-2009	Chairman, Nominating Committee, Behavioral Neurology Section, American Academy of Neurology
2006-2020	Behavioral Neurology and Neuropsychiatry Fellowship Exam Certification Committee of the United Council of Neurological Subspecialties
2006-2017	Protocol Review and Monitoring Committee, Advanced Imaging Research Center, University of Texas
2002	Membership Committee, Academy of Aphasia
2000-2009	Medical Economics and Management Committee, American Academy of Neurology, Behavioral Neurology Representative
1999-2009	Executive Committee, Behavioral Neurology Section, American Academy of Neurology
2006	AAN Representative to the RUC for approval and establishing of relative value units to for Functional Brain

	Mapping (2/2-5/06)
2005-2007	President Behavioral Neurology Section of the American Academy of Neurology
2005-2007	President Society for Behavioral and Cognitive Neurology
2005	AAN representative presenting the diagnostic codes for Mild Cognitive Impairment to ICD panel at CMMS
2005	AAN representative and original sponsor of Functional Brain Mapping billing code approved by AMA CPT Committee
2004-2005	Adult Day Healthcare Advisory Program Committee, CAVHS
2004-2005	Telehealth Care Implementation Team, CAVHS
2004-2005	VISN 16, Care Coordination and Telehealth
2002-2005	President-elect Behavioral Neurology Section of the American Academy of Neurology
2002-2005	President-elect Society for Behavioral and Cognitive Neurology
2002-2005	Co-Chairman, Linkages Committee, Dept. of Geriatrics, UAMS
2002	AAN representative presenting the diagnostic codes for Frontotemporal Dementia and Dementia with Lewy Bodies to ICD panel at CMMS
2002	Co-Chairman, Faculty Retreat, Dept. of Geriatrics, UAMS
2001-2004	Chairman, Subspecialty Certification Committee, Behavioral Neurology Section, American Academy of Neurology
2000-2002	Secretary/Treasurer Behavioral Neurology Section of the American Academy of Neurology
2000-2002	Secretary/Treasurer Society for Behavioral and Cognitive Neurology
1999-2007	Chairman, Practice Issues Committee, Behavioral Neurology Section, American Academy of Neurology
1999-2001	Co-Chair, Residency Selection Committee (Neurology Department, The Johns Hopkins University School of Medicine)

	1998-2001	Psychosurgery Review Committee (The Johns Hopkins Hospital)
	1998-2001	Committee on Appointments and Promotions (Neurology Department, The Johns Hopkins University School of Medicine)
	1998	Coding and Reimbursement Subcommittee of the Scope of Practice Committee (American Academy of Neurology)
	1997-2001	Functional Imaging Committee (The Johns Hopkins University)
EDITORIAL ACTIVITIES:	1998- 2006-2009 2007	Editorial Board, <i>Neurocase</i> Editorial Board, <i>Neuropsychology</i> Editorial Board, <i>Journal of Innovative Optical Health Sciences</i>
	2009	Editorial Board, <i>World Journal of Radiology</i>
	2010-	Review Editorial Board, <i>Frontiers in Psychiatry: Neuroimaging and Stimulation</i>
	2011	Editorial Board, <i>World Journal of Psychiatry</i>
	2015-16	Editorial Board, <i>Journal of Alzheimer's Disease</i>
AD HOC REVIEWER:	Journals:	<i>Annals of Neurology; Archives of Neurology; Archives of Physical Medicine and Rehabilitation; Behavioral Neurology; Brain; Brain and Language; Brain Research; Cognitive Neuropsychology; Cognitive and Behavioral Neurology; Epilepsia; Human Brain Mapping; International Journal of Psychophysiology; Journal of Cognitive Neuroscience; Journal of the American Medical Association; JAMA Neurology; Journal of Infectious Diseases; Journal of Neurophysiology; Journal of Neurotrauma; Journal of the International Neuropsychological Society; Journal of Psychiatric Research, Journal of Telemedicine and Telecare; Journal of Theoretical Biology; Lancet; Multiple Sclerosis; Neurobiology of Aging; Neuroimage; Neurology; Neuropsychiatry, Neuropsychology, and Behavioral Neurology; Neuropsychologia; Neuroscience Letters; PLoS ONE; Psychiatry Research; Science; Scientific Reports</i>
	Agencies:	NIH - Neurology A Study Section (1993-1995); Initial Review Board of the Medical and Scientific Advisory Council of the Alzheimer's Disease and Related Disorders Association (2000); BioSciences and BioEngineering Section of the Science Foundation of Ireland (2007); UT Health BRAIN Initiative (2014); DOD - US Army MOMRP BAA (2014)
CONSULTANT:	Publications:	<i>Time-Life Books</i>

	Media:	<i>CSI: New York</i>
PREVIOUS SPEAKER:		Eisai Pharmaceuticals, Pfizer Pharmaceuticals; Bayer Pharmaceuticals; Forrest Pharmaceuticals
BOARD MEMBERSHIP:	2007	Britton Chance Center for Biomedical Photonics (BCCBP) of Huazhong University of Science of Technology (HUST) of Wuhan, China
	2015-2018	The Winston School, Dallas, TX

PUBLICATIONS

ORIGINAL ARTICLES AND INVESTIGATIONS IN PEER REVIEWED JOURNALS

1. **Hart, J.**, Berndt, R.S., Caramazza, A. (1985). Category-specific naming deficits following cerebral infarction. *Nature*, 316(6027), 439-440.
2. **Hart, J.**, & Gordon, B. (1990). Delineation of single-word semantic comprehension deficits in aphasia, with anatomical correlation. *Annals of Neurology*, 27(3), 226-231.
3. Fisher, R.S., Cysyk, B.J., Lesser, R.P., Pontecorvo, M.J., Ferkany, M., Schwerdt, P.R., **Hart, J.**, Gordon, B. (1990). Dextromethorphan for treatment of complex partial seizures. *Neurology*, 40(3 Pt 1), 547-549.
4. Burnstine, T.H., Lesser, R.P., **Hart, J.**, Uematsu, S., Zinreich, S.J., Krauss, G.L., Fisher, R.S., Vining, E.P.G., Gordon, B. (1990). Characterization of the basal temporal language area in patients with left temporal lobe epilepsy. *Neurology*, 40(6), 966-970.
5. Gordon, B., Selnes, O.A., **Hart, J.**, Hanley, D., Whitley, R.J. (1990). Long-term cognitive sequelae of Acyclovir-treated Herpes simplex encephalitis. *Archives of Neurology*, 47(6), 646-647.
6. Gordon, B., Lesser, R.P., Rance, N.E., **Hart, J.**, Webber, R., Uematsu, S., Fisher, R.S. (1990). Parameters for direct cortical electrical stimulation in the human: Histopathologic confirmation. *Electroencephalography and Clinical Neurophysiology*, 75(5), 371-377.
7. **Hart, J.**, & Gordon, B. (1990). Early-onset dementia and extrapyramidal disease: clinicopathologic variant of Gerstmann-Straussler-Scheinker and Alzheimer's disease? *Journal of Neurology, Neurosurgery, and Psychiatry*, 53(11), 932-934. doi:10.1136/jnnp.53.11.932
8. Uematsu, S., Lesser, R.P., Fisher, R.S., Krauss, G.L., **Hart, J.**, Vining, E.P., Freeman, J., Gordon, B. (1990). Resection of the epileptogenic area in critical cortex with the aid of a subdural grid. *Stereotactic and Functional Neurosurgery*, 54-55, 34-45.
9. **Hart, J.**, Lesser, R.P., Fisher, R.S., Schwerdt, P., Bryan, R.N., Gordon, B. (1991). Dominant-side intracarotid amobarbital spares comprehension of word-meaning. *Archives of Neurology*, 48(1), 55-58.
10. Jeffery, P.J., Monsein, L.H., Szabo, Z., **Hart, J.**, Fisher, R.S., Lesser, R.P., DeBrun, G., Gordon, B., Wagner, H.N., Camargo, E.E. (1991). Mapping the distribution of amobarbital in the intra-arterial sodium amobarbital (Wada) test with Tc-99m HMPAO SPECT. *Radiology*, 178(3), 847-850.
11. Selnes, O.A., Pestronk, A., **Hart, J.**, Gordon, B. (1991). Limb apraxia without aphasia from a left-sided lesion in a right-hander. *Journal of Neurology, Neurosurgery, and Psychiatry*, 54(9), 734-737.

12. Arroyo, S., Krauss, G.L., Lesser, R.P., Gordon, B., **Hart, J.**, Carson, B.S., Uematsu, S. (1992). Simple partial seizures: clinico-functional correlation – a case report. *Neurology*, 42(3 Pt 1), 642-646.
13. **Hart, J.**, & Gordon, B. (1992). Neural subsystems for object knowledge. *Nature*, 359(6390), 60-64.
14. **Hart, J.**, Lesser, R.P., Gordon, B. (1992). Selective interference with the representation of size in the human by direct cortical electrical stimulation. *Journal of Cognitive Neuroscience*, 4(4), 337-344.
15. **Hart, J.**, Lewis, P.J., Lesser, R.P., Fisher, R.S., Monsein, L.H., Schwerdt, P., Bandeen-Roche, K., Gordon, B. (1993). Anatomic correlates of memory from intracarotid amobarbital injections with Tc-99m HMPAO SPECT. *Archives of Neurology*, 50(7), 745-750.
16. Arroyo, S., Lesser, R.P., Gordon, B., Uematsu, S., **Hart, J.**, Schwerdt, P., Andreasson, K., Fisher, R.S. (1993). Mirth, laughter, and gelastic seizures. *Brain*, 116(Pt 4), 757-780.
17. Arroyo, S., Lesser, R.P., Fisher, R.S., Vining, E.P., Krauss, G.L., Bandeen-Roche, K., **Hart, J.**, Gordon, B., Uematsu, S., Webber, R. (1994). Clinical and electroencephalographic evidence for sites of origin of seizures with diffuse electrodecremental pattern. *Epilepsia*, 35(5), 974-987.
18. Small, S., **Hart, J.**, Nguyen, T., Gordon, B. (1995). Distributed representations of semantic knowledge in the brain. *Brain*, 118(Pt 2), 441-453.
19. Small, S., Holland, A.L., **Hart, J.**, Forbes, M.M., Gordon, B. (1995). Response variability in picture naming: a computational study. *Clinical Aphasiology*, 23, 25-38.
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43. Gordon, B., Uematsu, S., Lesser, R., Schwerdt, P., Fisher, R., Vining, E.P.G., **Hart, J.** (December 1991). *Utility of intraoperative neuropsychological testing with stepwise resection.* American Epilepsy Society Annual Meeting, Philadelphia, PA. (*Epilepsia*, 32(s3), 87).
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47. Schwerdt, P., Boatman, D., Lesser, R.P., **Hart, J.**, Gordon, B. (May 1992). *The intra- and inter-hemispheric organization of language in a bilingual as tested with the intracarotid amobarbital procedure (IAP).* 44th Annual Meeting of the American Academy of Neurology, San Diego, CA. (*Neurology*, 42, 449).
48. Small, S., **Hart, J.**, Gordon, B. (October 1992). *Automated boxology: A modular connectionist approach to modeling with application to picture naming.* Academy of Aphasia Annual Meeting, Toronto, Ontario, Canada.
49. Medina, A., **Hart, J.**, Lesser, R., Krauss, G., Uematsu, S., Gordon, B. (December 1992). *Retrograde amnesia following left temporal lobectomy.* American Epilepsy Society Annual Meeting, Seattle, WA. (AES Proceedings. *Epilepsia*, 33(s3), 139).
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52. Lesser, R.P., **Hart, J.**, Gordon, B. (April 1993). *Evidence for orientation-specific channels in human visual information processing.* American Academy of Neurology, New York, NY. (*Neurology*, 43, A353).

53. Gordon, B., Lesser, R.P., **Hart, J.** (April 1993). *Etiology of anomia from a temporal lobe lesion*. American Academy of Neurology, New York, NY. (*Neurology*, 43, A403).
54. Small, S.L., **Hart, J.**, Gordon, B., Holland, A.L. (April 1993). *Performance variability in a diffusely lesioned model of semantic representation for object naming*. American Academy of Neurology, New York, NY. (*Neurology*, 43, A405).
55. **Hart, J.**, Lesser, R.P., Gordon, B. (April 1993). *Studies of knowledge representation and neuroanatomic associations*. American Academy of Neurology, New York, NY. (*Neurology*, 43, A405).
56. Small, S.L., Holland, A.L., **Hart, J.**, Forbes, M.M., Gordon, B. (June 1993). *Response variability in naming: A computational study*. Clinical Aphasiology Conference, Sedona, AZ.
57. Small, S., **Hart, J.**, Nguyen, T., Gordon, B. (November 1993). *Distributed representations of semantic knowledge in the brain*. Society for Neuroscience, Washington, D.C.
58. Small, S., **Hart, J.**, Holland, A., Gordon, B. (October 1993). *Neural networks and naming: Diffuse and focal lesions*. Academy of Aphasia Annual Meeting, Tucson, AZ.
59. **Hart, J.**, Pettis, M., Lesser, R.P., Holcomb, H., Gordon, B. (October 1994). *Selective preservation of color processing in severe visual object agnosia*. American Neurological Association, San Francisco, CA. (Abstracts. *Annals of Neurology*, 36(2), 262).
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61. Crone, N.E., **Hart, J.**, Boatman, D., Lesser, R.P., Gordon, B. (October 1994). *Regional cortical activation during language and related tasks identified by direct cortical electrical recording*. Academy of Aphasia Annual Meeting, Boston, MA. (Abstracts. *Brain and Language*, 47(3), 466-468).
62. Gordon, B., **Hart, J.**, Lesser, R.P., Selnes, O.A. (October 1994). *Recovery and its implications for cognitive neuroscience*. Academy of Aphasia Annual Meeting, Boston, MA. (Abstracts. *Brain and Language*, 47(3), 521-524).
63. **Hart, J.**, & Gordon, B. (November 1994). *Category-specific anomia: Implications for the neural bases of object knowledge*. Society for Neuroscience, Miami, FL. (*Society for Neuroscience, Abstracts* 20, 1664).
64. Crone, N.E., **Hart, J.**, Lesser, R.P., Gordon, B. (November 1994). *The time course of regional cerebral activation during cognitive tasks: Results of direct cortical electrical recording in humans*. Society for Neuroscience, Miami FL. (*Society for Neuroscience, Abstracts* 20,1001).
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66. Crone, N.E., **Hart, J.**, Lesser, R.P., Boatman, D., Gordon, B. (December 1994). *Spectral changes associated with regional cerebral processing: results of direct cortical recording in humans*. American Epilepsy Society Annual Meeting, New Orleans, LA. (AES Proceedings. *Epilepsia*, 35(s8), 103).

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68. Kraut, M., Soher B., Sieracki, J., Bryan, R.N., Gordon, B., **Hart, J.** (November 1995). *Object shape recognition in the human visual system as shown by fMRI*. Society for Neuroscience, San Diego, CA. (*Society for Neuroscience Abstracts*, 21, 1497).
69. **Hart, J.**, Kraut, M., Crone, N.E., Soher, B., Sieracki, J., Bryan, R.N., Gordon, B. (November 1995). *Determination of critical brain regions for object recognition in the visual system*. Society for Neuroscience, San Diego, CA. (*Society for Neuroscience Abstracts*, 21, 1497).
70. Boatman, D., Crone, N., **Hart, J., Jr.**, Lesser, R.P., Gordon, B. (November 1995). *Interrelatedness of syllable perception and production: Evidence from direct cortical electrical interference and recording*. Academy of Aphasia, Annual Meeting, San Diego, CA.
71. Tesoro, M.A., **Hart, J.**, Schwerdt, P., Lesser, R.P., Carson, K., Krauss, G., Vining, E.P.G., Monsein, L., Boatman, D.F., Gordon, B. (December 1995). *Language laterality as determined by a standardized intracarotid amobarbital procedure*. American Epilepsy Society, Baltimore, MD. (*AES Proceedings. Epilepsia*, 36(s4), 145).
72. Kraut, M., Kremen, S., Soher B., Bryan, R.N., Gordon, B., **Hart, J.** (November 1996). *Neural correlates of lexical access as shown by fMRI*. Society for Neuroscience, Washington, D.C..
73. Boatman, D., Miglioretti, D., **Hart, J.**, Lamberti, N., Rothlisberger, B., Gordon, B. (November 1996). *Localization and variability in the cortical representation of syllable discrimination and comprehension*. Academy of Aphasia, Annual Meeting, London, England. (Poster Session 2. *Brain and Language*, 55(1), 150-152).
74. Rios, M., Hart, J., Lesser, R., Gordon, B. (December 1996). *Right hemisphere language mapping in patients with bilateral speech: A comparison of cortical stimulation and intracarotid amobarbital procedure*. American Epilepsy Society, San Francisco, CA. (*AES Proceedings. Epilepsia*, 37(s5), 132).
75. Deibert, E., Kraut, M., Kremen, S., **Hart, J.** (October 1997). *Neural pathways in tactile object recognition*. Society for Neuroscience, New Orleans, LA.
76. Tesoro, M., Miglioretti, D., Lesser, R., Krauss, G., Vining, E.P.G., Lenz, F., Smith, T., Kremen, S., **Hart, J.** (December 1998). *SPECT and memory function during the intracarotid amobarbital injection*. American Epilepsy Society, San Diego, CA. (*AES Proceedings. Epilepsia*, 39(s6), 245).
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78. Crone, N.E., **Hart, J.**, Hao, L., Miglioretti, D., Lesser, R.P., Gordon, B. (April 1999). *Functional mapping of word production in human sign language using electrocorticographic spectral analysis*. American Academy of Neurology, Toronto, Canada. (*Neurology*, 52, A233).
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80. Moo, L., Crone, N., Krauss, G., **Hart, J.** (April 2000). *Plasticity of Human Language Cortex*. American Academy of Neurology, San Diego, CA. (*Neurology*, 54, A101).

81. Slotnick, S., Moo, L., Zee, D., Tesoro, M. **Hart, J.** (April 2000). *Utility of an Interlocking Finger Test in a Neurologic Examination*. American Academy of Neurology, San Diego, CA. (*Neurology*, 54, A310).
82. Deibert, E., Edwards, D., **Hart, J.**, Krupp, J., Ball, C., Kremen, S., Aiyagari, V., Diringer, M. (April 2000). *Development of a Bedside Cognitive Scale for Acutely Ill Neurology/Neurosurgery Patients*. American Academy of Neurology, San Diego, CA. (*Neurology*, 54, A310).
83. **Hart, J.**, Kremen, S., Segal, J., Kraut, M. (April 2000). *Object Activation via Feature Binding in the Semantic System Using fMRI*. American Academy of Neurology, San Diego, CA. (*Neurology*, 54, A398).
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85. Kraut, M., Segal, J.B., Kremen, S., Moo, L., **Hart, J.** (March 2001). *Cortical and subcortical activation in multimodal binding*. Cognitive Neuroscience Society.
86. Moo, L., Slotnick, S., Tesoro, M., **Hart, J.** (March 2001). *Intracarotid amobarbital injections confirm differential hemispheric specialization in categorical versus coordinate visuospatial processing*. Cognitive Neuroscience Society.
87. Moo, L., Tesoro, M.A., Beyderman, L., Breitstein, J., **Hart, J.** (May 2001). *Shifts of cortical substrates subserving word repetition*. American Academy of Neurology, Philadelphia, PA.
88. Kraut, M.A., Moo, L.R., Segal, J.B., **Hart, J.** (November 2001). *Functional MRI investigation of brain regions involved in categorizing objects.* Radiological Society of North America 87th Scientific Assembly and Annual Meeting, Chicago, IL.
89. Hillis, A. & **Hart, J.** (November 2001). *Mechanisms of early recovery of language comprehension after stroke*. Society for Neuroscience, San Diego, CA.
90. Moo, L., Segal, J., Kraut, M., **Hart, J.** (March 2002). *Distinct cortical loci for hand vs. foot-related items in an implicit categorization task*. Cognitive Neuroscience Society.
91. Segal, J.B., Moo, L., Kraut, M., **Hart, J.** (March 2002). *A distinct form of thalamic aphasia due to a semantic feature-binding deficit*. Cognitive Neuroscience Society.
92. Kraut, M.A., Moo, L.R., Segal, J.B., Slotnick, S., **Hart, J.** (May 2002). *Comparison of Neural Activity During Letter and Object Processing*. 40th Annual Meeting of the American Society of Neuroradiology, Vancouver, Canada.
93. Slotnick, S. & **Hart, J.** (November 2003). *Thalamocortical evidence for a constructive memory framework*. Society for Neuroscience, New Orleans, LA.
94. Assaf, M., Kuzu, C., Rivkin, P., Calhoun, V., Kraut, M., Yassa, M., **Hart, J.**, Pearlson, G. (April 2004). *fMRI evidence for abnormal semantic processing in schizophrenia*. Society of Biological Psychiatry 59th Annual Meeting, New York, NY. (*Biological Psychiatry* 2004, 55, 18S. doi:10.1016/j.biopsych.2004.02.016).
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96. Gardner, E., Chelonis, J., Dornhoffer, J., Henderson, V., **Hart, J.**, Blake, D., Paule, M. (2004). *Delayed matching-to-sample performance across the lifespan: effects on accuracy and latency*. Association for Behavior Analysis, Boston, MA.
97. **Hart, J.** (July 2004). *Neural hybrid model of semantic object recall*. International Neuropsychological Association and Australian Society for the Study of Brain Impairment, Brisbane, Australia. (*Brain Impairment* 2004, 5, 27).
98. **Hart, J.**, Pitcock, J., Calhoun, V., Li, J., Kraut, M. (April 2005). *Neuroanatomic organization of sound memory in humans*. American Academy of Neurology 57th Annual Meeting, Miami Beach, FL.
99. Li, J., Kimbrell, T., Pitcock, J., Freeman, T., **Hart, J.** (April 2005). *Threat-Relevant P3 Event-Related Potentials in Post-Traumatic Stress Disorder.* 12th Annual Cognitive Neuroscience Society Meeting.
100. **Hart, J.**, Li, J., Pitcock, J., Calhoun, V., Kraut, M. (April 2006). *Cortical rhythms during semantic object recall in Mild Cognitive Impairment*. American Academy of Neurology 58th Annual Meeting, San Diego, CA.
101. Li, J., Kraut, M., Pitcock, J., **Hart, J.** (April 2006). *Changes of low frequency cortical rhythms during semantic memory recall in Mild Cognitive Impairment*. 13th Annual Cognitive Neuroscience Society Meeting.
102. Brier, M., Maguire, M., Tillman, G., Xavier, P., Ferree, T., Kraut, M., **Hart, J.** (June 2008). *Neurophysiological marker of semantic object retrieval*. 36th Annual International Neuropsychological Society Meeting, Waikoloa, HI.
103. Calley, C., Tillman, G., Maguire, M., Moore, P., Henderson, V., **Hart, J.**, Kraut, M. (June 2008). Reliability of subjective memory rating in predicting neuropsychological performance. 36th Annual International Neuropsychological Society Meeting, Waikoloa, HI.
104. Anand, R., Maguire, M., Chapman, S., **Hart, J.**, Moore, P. (June 2008). *Gist-based and detail-based processing of information: effects of normal cognitive aging*. 36th Annual International Neuropsychological Society Meeting, Waikoloa, HI.
105. Brier, M., Ferree, T., Tillman, G., Maguire, M., **Hart, J.**, Kraut, M. (April 2008). *Neural oscillations in semantic object retrieval*. 15th Annual Cognitive Neuroscience Society, San Francisco, CA.
106. Anand, R., Maguire, M., Chapman, S., **Hart, J.** (April 2008). *Seeing the forest and the trees: exploring the neurological underpinnings of gist and detail processing*. 15th Annual Cognitive Neuroscience Society, San Francisco, CA.
107. Brier, M., Maguire, M., Moore, P., Gelman, Y., Kraut, M., **Hart, J.** (November 2008). *N2 amplitude is modulated by semantic complexity in an inhibition task*. Society for Neuroscience, Washington, D.C.
108. **Hart, J.**, Calley, C., Tillman, G., Green, T., Motes, M., Kirk, A., Kraut, M. (November 2008). *Threat: featural organization to visual object memory*. Society for Neuroscience, Washington, D.C.
109. Calley, C., Tillman, G., Green, T., Kraut, M., **Hart, J.** (November 2008). *fMRI BOLD response in threat processing*. Society for Neuroscience, Washington, D.C.
110. Brier, M.R., Maguire, M.J., Moore, P.S., Gelman, Y., Kraut, M.A., **Hart, J.** (November 2008). *P3 amplitude is modulated by semantic complexity in an inhibition task*. Society for Neuroscience Meeting, Washington, D.C.
111. Ferree, T.C., Brier, M.R., **Hart, J.**, Kraut, M.A. (March 2009). *Space-time-frequency analysis of EEG data in single subject and group data*. 16th Annual Cognitive Neuroscience Society Meeting, San Francisco, CA.

112. Calley, C.S., Brier, M.R., Ferree, T.C., Patel, R.H., Gelman, Y., Tillman, G.D., Kraut, M.A., **Hart, J.** (March 2009). *EEG correlates of processing visual threatening stimuli*. 16th Annual Cognitive Neuroscience Society Meeting, San Francisco, CA.
113. Brier, M.R., Maguire, M.J., Ferree, T.C., **Hart, J.** (April 2009). *Arithmetic recall and number comparison as revealed by event-related potentials*. The University of Texas at Dallas Undergraduate Research Poster Competition, Richardson, TX.
114. Xu, F., Yezhuvath, U., Brier, M.R., **Hart, J.**, Kraut, M.A., Moore, P.S., Lu, H. (May 2009). *CO2 breathing suppresses cerebral metabolic rate of oxygen*. International Society for Magnetic Resonance in Medicine, Honolulu, HI.
115. Brier, M.R., Maguire, M.J., Ferree, T.C., Gelman, Y., Patel, R., **Hart, J.**, Kraut, M.A. (October 2009). *Arithmetic Processing and Number Comparison as Revealed by Event Related Potentials*. Society for Neuroscience Meeting, Chicago, IL.
116. Briggs, R., Cheshkov, S., Lu, H., Li, X., McColl, R., Buhner, D., Ferree, T., **Hart, J.**, Haley, R. (March 2010). *Objective brain abnormalities by 3T MRI and EEG in Gulf War Illness*. 49th Annual Meeting and ToxExpo of the Society of Toxicology, Salt Lake City, UT.
117. Ringe, W., Briggs, R., Gopinath, K., Kraut, M., Rypma, B., Odegard, T., Bartlett, J., Crosson, B., **Hart, J.**, Haley, R. (March 2010). *Functional neuroimaging shows abnormalities in brain function underlying symptoms of Gulf War Illness*. 49th Annual Meeting and ToxExpo of the Society of Toxicology, Salt Lake City, UT.
118. Horn, K., Crosson, B., Levy, I., Moffett, K., Kaundinya, G., Spence, J., **Hart Jr, J.**, Moore, A. (April 2010). *Subcortical and Cognitive Deficits in 1991 Gulf War Syndrome 2*. 17th Annual Cognitive Neuroscience Society Meeting, Montréal, Canada.
119. Tillman, G., Green, T., Ferree, T., Calley, C., Maguire, M., Briggs, R., **Hart, Jr., J.**, Haley, R., Kraut, M. (April 2010). *Impaired Response Inhibition in Ill Gulf War Veterans*. 17th Annual Cognitive Neuroscience Society Meeting, Montréal, Canada.
120. Calley, C., Brier, M., Ferree, T., Patel, R., Gelman, Y., Tillman, G., Kraut, M., **Hart, Jr., J.** (April 2010). *EEG correlates, of threatening visual stimuli*. 17th Annual Cognitive Neuroscience Society Meeting, Montréal, Canada.
121. Calley, C., Kraut, M., Green, T., Buhl, V., Grinnan, J., Tillman, G., **Hart, Jr., J.** (April 2010). *Word-Finding Deficits Assessed in Veterans with Gulf War Illness: an fMRI Study*. 17th Annual Cognitive Neuroscience Society Meeting, Montréal, Canada.
122. Buhl, V., Calley, C., **Hart Jr., J.**, Tillman, G., Green, T., Grinnan, J., Kraut, M. (April 2010). *Threat response and hyperarousal assessed in veterans with Gulf War syndrome: an fmri study*. 17th Annual Cognitive Neuroscience Society Meeting, Montréal, Canada.
123. Kraut, M., Brier, M., Maguire, M., Ferree, T., **Hart, J.** (April 2010). *Frontal theta and alpha power and coherence changes are modulated by semantic complexity in Go/NoGo tasks*. 17th Annual Cognitive Neuroscience Society Meeting, Montréal, Canada.
124. Bartz, E., Keebler, M., Gardner, C., Anand, R., Uh, J., Lu, H., Cooper, K., Chapman, S., **Hart, J.** (April 2010). *Brain and cognitive changes after physical training in cognitively normal seniors*. 17th Annual Cognitive Neuroscience Society Meeting, Montréal, Canada.

125. Strain, J., **Hart, J.**, Diaz-Arrastia, R., Womack, K. (April 2010). *White matter diffusivity: Changes between select dementia groups*. 17th Annual Cognitive Neuroscience Society Meeting, Montréal, Canada.
126. Chiang, H.-S., Calley, C., Kraut, M.A., **Hart, J.** (November 2010). *Spatially distributed activation in neostriatal systems corresponds to increased levels of semantic difficulty in response inhibition*. Society for Neuroscience Meeting, Washington, D.C.
127. Biggs, M., Hester, A., Posamentier, M., Ringe, W., Cullum, M., **Hart, J.**, Haley, R. (April 2010). *Mental health status of U.S. veterans who served in the first Gulf War*. Society of Behavioral Medicine (SBM) 31st Annual Meeting, Seattle, WA. (*Annals of Behavioral Medicine*, 39(s1), s27. doi:10.1007/s12160-010-1969-5).
128. Anand, R., Chiang, H., Kraut, M., Bartz, E., Maguire, M., **Hart, J.** (April 2011). *Effects of semantics on inhibitory processes in aging*. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
129. Rao, N., Jantz, T., Salinas, M., Brier, M., Maguire, M., Chapman, S., Gamino, J., **Hart, J.**, Motes, M. (April 2011). *Complexity of semantic processing differentiates inhibitory brain response in adolescents with ADHD*. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
130. Salinas, M., Jantz, T., Rao, N., Maguire, M., Brier, M., **Hart, J.**, Chapman, S., Gamino, J., Motes, M. (April 2011). *Strategic memory & reasoning training benefits frontal-mediated executive function in adolescents*. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
131. Strain, J., Diaz-Arrastia, R., **Hart, J.**, Womack, K. (April 2011). *White matter diffusivity: changes between select dementia groups*. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
132. Tillman, G., Calley, C., Green, T., Buhl, V., Biggs, M., Spence, J., Briggs, R., Haley, R., **Hart, J.**, Kraut, M. (April 2011). *Neurobiologic correlates of hyperarousal in patients with Gulf War Illnesses*. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
133. Ahmadi, A., Jafari, R., **Hart, J., Jr.** (August 2011). *Light-weight single trial EEG signal processing algorithms: computational profiling for low power design*. International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC), Boston, MA.
134. Hodics T., Upreti, B. Alex, A., Xu, B., Hidler, J., Kowalske, K., **Hart, J.**, Dromerick, A., Pezzullo, P., Cohen L. (September 2011). *Transcranial Direct Current Stimulation (tDCS) enhanced stroke recovery and cortical reorganization-ongoing clinical trial*. European Federation of Neurological Societies Meeting 2011, Budapest, Hungary.
135. Chiang, H., Anand, R., Eroh, J., Strain, J., Patel, R., Bartz, E., Martin-Cook, K., Kraut, M., **Hart, J.** (September 2011). *An electrophysiological marker of an object abstraction deficit in mild cognitive impairment*. Society of Psychophysiological Research, Annual Meeting, Boston, MA.
136. Strain, J., Diaz-Arrastia, R., **Hart, J.**, Womack, K. (November 2011). *White matter and letter fluency: a correlational story with frontotemporal lobar degeneration*. Society for Neurobiology of Language, Annapolis, MD.
137. Chiang, H., Kraut, M., Anand, R., **Hart, J.** (November 2011). *Which one is heavier? Which one is larger? electrophysiological evidence of semantic size and weight processes in the brain*. Society for Neuroscience, Washington, D.C.
138. Hodics, T., Upreti, B., Hidler, J., Xu, B., Kowalske, K., Hart, J., Dromerick, A., Pezzullo, J., Cohen, L. (February 2012). *Transcranial Direct Current Stimulation (tDCS) enhanced stroke recovery and cortical reorganization*. International Stroke Conference, New Orleans, LA.

139. Rao, N., Motes, M., Calley, C., Tillman, G., Kraut, M., **Hart, J.** (March 2012). *Threat as a feature of semantic auditory memory*. Cognitive Neuroscience Annual Meeting, Chicago, IL.
140. Strain, J., Diaz-Arrastia, R., **Hart, J.**, Womack, K. (March 2012). *The examination of white matter correlates with letter and category fluency in frontotemporal lobar degeneration with two diffusion tensor imaging approaches*. Cognitive Neuroscience Society Annual Meeting, Chicago, IL.
141. Chiang, H.-S., Anand Mudar, R., Bartz, E. K., Kraut, M. A., **Hart, J. Jr.** (March 2012). *Event-related potentials (ERPs) reflect a distinctive frontal activity in a feature-based object knowledge retrieval process in aging*. Cognitive Neuroscience Society Annual Meeting, Chicago, IL.
142. Mudar, R., Chiang, H. -S., Motes, M., Maguire, M., Bartz, E., **Hart, J.** (March 2012). *Neural Basis of Gist and Detail Processing: Effects of Normal Aging*. Cognitive Neuroscience Society Annual Meeting, Chicago, IL.
143. Zou, Y., **Hart, J.**, Jafari, R. (March 2012). *Automatic EEG artifact removal based on ICA and hierarchical clustering*. IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), Kyoto, Japan.
144. Womack, K., Strain, J., Hynan, L., Devous, M., **Hart, J., Jr.**, McColl, R., Diaz-Arrastia, R. (April 2012). *A novel method for quantifying white matter disease burden using Diffusion Tensor Imaging*. American Academy of Neurology 64th Annual Meeting, New Orleans, LA.
145. Chiang, H., Anand, R., Bartz, E., Martin-Cook, K., Kraut, M., **Hart Jr., J.** (April 2012). *Loss of differentiation in Event-Related Potentials (ERPs) to reflect a feature-based object memory retrieval process in patients with Mild Cognitive Impairment*. American Academy of Neurology 64th Annual Meeting, 2012, New Orleans, LA.
146. Mudar, R., Chiang, H. -S., Eroh, J., Rackley, A., Venza, E., Martin-Cook, K., Womack, K., **Hart, Jr. J.**, Chapman, S. (April 2013). *Benefits of cognitive training in individuals with Mild Cognitive Impairment*. Cognitive Neuroscience Society Annual Meeting, San Francisco, CA.
147. Chiang, H. -S., Mudar, R. A., Rackley, A., Venza, E., Pudhiyidath, A., Van, J., Martin-Cook, K., Womack, K., Kraut, M.A., **Hart, Jr., J.** (July 2013). *An early fMRI marker of semantic memory deficits in patients with amnesic mild cognitive impairment*. Alzheimer's Association International Conference, Boston, MA.
148. Womack, K., Strain, J., Didehbani, N., Cullum, M., Kraut, M., **Hart, J.** (March 2013). *The association of impaired white matter integrity with the presence and severity of depression in retired football league athletes*. American Academy of Neurology 65th Annual Meeting, San Diego, CA.
149. Strain, J., Didehbani, N., Conover, H., Mansinghani, S., Kraut, M. Cullum, M., **Hart, J.**, Womack, K. (April 2013). *White matter changes and confrontation naming in retired aging NFL athletes*. Cognitive Neuroscience Society, 20th Anniversary Meeting, San Francisco, CA.
150. Strain, J., Didehbani, N., Conover, H., Bartz, E., Mansinghani, S., Kraut, M., Cullum, M., **Hart, J.**, Womack, K. (April 2013). *Neuropsychological Assessment and White Matter Correlates within Professional Athletes: a Correlation Study*. Sports Neuropsychological Society, 1st Annual Meeting, Minneapolis, MN.
151. Chiang, H. -S., Mudar, R. A., Eroh, J., Spence, J. S., Pudhiyidath, A., Tanner, J., Venza, E., Rackley, A., Martin-Cook, K., Womack, K. B., Bartz, E. K., Kraut, M. A., **Hart Jr., J.** (2014, May). *Accentuated brain responses during semantic object memory retrieval in amnesic mild cognitive impairment as measured by event-related potentials*. Poster presented at the annual meeting of the American Academy of Neurology, Philadelphia, PA.

152. Womack, K., Strain, J., Chen, K., Spence, J., Didehbani, N., Cullum, M., **Hart, J.** (April 2015). *The impact of games played on age related changes in white matter mean diffusivity among retired NFL athletes*. American Academy of Neurology 67th Annual Meeting, Washington, D.C.
153. Wilmoth, K., LoBue, C., Strain, J., **Hart, J.**, Cullum, C.M., Dieppa, M., Didehbani, N. (November 2015). *Reliability of self-reported concussion history in retired professional football players with and without cognitive impairment*. Annual Conference of the National Academy of Neuropsychology, Austin, TX.
154. Didehbani, N., Aslan, S., Strain, J., Fields, L., **Hart, J.**, Cullum, C.M. (November 2015). *Functional and structural brain changes of high school football athletes after one season*. National Academy of Neuropsychology, Austin, TX.
155. Wilmoth, K., LoBue, C., Didehbani, N., **Hart, J.**, Womack, K., Bell, K., Batjer, H., Cullum, C.M. (October 2015). *Reliability of self-reported concussion history with and without cognitive impairment*. 92nd annual meeting of the American Congress of Rehabilitation Medicine, Dallas, TX.
156. Wilmoth, K., Didehbani, N., Hynan, L.S., **Hart, J.**, Cullum, C.M. (May 2015). *Cognitive performance in MCI patients with and without a history of concussion*. North American Brain Injury Society, San Antonio, TX.
157. Fields, L., **Hart, J.**, Cullum, C.M., Dieppa, M., Didehbani, N. (May 2015). *Naming and verbal memory performance in retired professional athletes*. Sports Neuropsychology Society, Atlanta, GA.
158. Wilmoth, K., LoBue, C., Strain, J., **Hart, J.**, Cullum, M.C., Dieppa, M., Didehbani, N. (May 2015). *Reliability of self-reported concussion history in retired professional football players*. Sports Neuropsychology Society, Atlanta, GA.
159. Cullum, C.M., Lobue, C., Denney, D., Hynan, L., Rossetti, H., Lacritz, L., **Hart, Jr., J.**, & Womack, K.B. (2015). Traumatic brain injury history and age of mild cognitive impairment diagnosis. *Alzheimer's & Dementia*, 11(7), P444. doi:10.1016/j.jalz.2015.06.438
160. Fields, L., Wilmoth, K., Didehbani, N., Hynan, L., **Hart, J.**, Cullum, C. M. (2016). *Verbal memory in athlete and non-athlete MCI patients with and without a history of concussion*. Annual Concussion Symposium of the Sports Neuropsychology Society Sport Concussion Symposium, Houston, TX.
161. LoBue, C. Clem, M., Wilmoth, K., Wadsworth, H., Rossetti, H., Woon, F., **Hart, J.**, Womack, K., Cullum, C.M. (February 2016). *Earlier age of diagnosis in Alzheimer disease by sex: the additive effect of traumatic brain injury history and apolipoprotein e4*. International Neuropsychological Society 44th Annual Meeting, Boston, MA.
161. Chiang, H. -S., Eroh, J., Spence, J., Motes, M., Choi, J., **Hart, J.**, Kraut, M. (2016, April). *Common and differential electrophysiological mechanisms underlying semantic object memory retrieval cued by features presented in different stimulus types*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, New York City, NY.
162. Jones, B., **Hart, J.**, Kiel, L.D. (June 2016). *The challenges and prospects of using neuroscience techniques in public management research*. Neuroethics Network of the Ethics and Society Association, Paris, France.
163. Kozel, F.A., Didehbani, N., Motes, M.A., Jones, P., Schraufnagel, C.D., DeLaRosa, B., Bass, C., Spence, J.S., **Hart, J.** (May 2016). *Augmenting cognitive processing therapy with rTMS in combat veterans of recent conflicts with PTSD*. Society of Biological Psychiatry's 71st Annual Meeting, Atlanta, GA.
164. **Hart, J., Jr.**, Kozel, F.A., Motes, M., Didehbani, N., Bass, C., Jones, P., Tillman, G., Spence, J., Cullum, M., Kraut, M. (August 2016). *Randomized placebo trial of rTMS + CPT vs. sham rTMS + CPT for combat-related*

- PTSD*. Military Health System Research Symposium, Kissemmme, FL.
165. Motes, M., Kozel, F.A., Didehbani, N., Bass, C., Jones, P., Spence, J., Cullum, M., Kraut, M., **Hart, J., Jr.** (August 2016). *Functional magnetic resonance imaging correlates of treatment response in PTSD*. Military Health System Research Symposium, Kissemmme, FL.
 166. Kraut, M., Kozel, F.A., Tillman, G., Motes., M., Didehbani, N., Bass, C., Jones, P., Spence, J., Cullum, M., **Hart, J., Jr.** (August 2016). *Brain electrophysiological correlates of rTMS-associated treatment response in PTSD*. Military Health System Research Symposium, Kissemmme, FL.
 167. Clem, M.A., LoBue, C., Wilmoth, K., **Hart, J.**, Cullum, C.M. (September 2016). *History of depression is associated with earlier age of diagnosis in Alzheimer's disease*. Poster, 36th Annual Conference of the National Academy of Neuropsychology, Seattle, WA. (*Archives of Clinical Neuropsychology*, 31(6), 611. doi:10.1093/arclin/acw043.73).
 168. Fields, L. M., Wilmoth, K., Strain, J., LoBue, C., Hynan, L. S., Womack, K., **Hart, J.**, Cullum, C. M., Didehbani, N. (February 2017). *Cognitive functioning in MCI patients with and without a history of sports-related concussion*. Poster, 45th Annual Meeting of the International Neuropsychological Society (INS), New Orleans, LA.
 169. Shapiro, E., Bass, C., Schraufnagel, C.D., Jones P., **Hart, J.**, Cullum, M., Didehbani, N. (February 2018). *Impact of mild traumatic brain injury on PTSD treatment outcomes*. Poster, International Neuropsychological Society Annual Meeting, Washington D.C.
 170. Samudra, N., Motes, M., Lu, H., Diaz-Arrastia, R., **Hart, J.**, Womack, K. (2019). *Sildenafil alters hippocampal fractional amplitude of low frequency fluctuations (fALFF) in patients with Alzheimer's disease*. *Neurology*, 92(15 supplement), P4.1-009. https://n.neurology.org/content/92/15_Supplement/P4.1-009.
 171. Smith, E., Schaffert, J., LoBue, C., **Hart, J.**, Rossetti, H., & Lacritz, L. (2019, November). Annualized decline in instrumental activities of daily living is slower in Hispanics compared to non-Hispanics in an Alzheimer's disease sample. Paper presented at the National Academy of Neuropsychology, San Diego, CA. doi:10.1093/arclin/acz035.23
 172. Chiang, H.-S., O'Hair, R., Motes, M., Kraut, M., **Hart J. Jr.** (2020, Oct). *Examining how baseline frontal lobe functions influence therapeutic effects of High-Definition transcranial Direct Current Stimulation on verbal retrieval deficits related to traumatic brain injury*. Accepted poster presentation at the annual Society for the Neurobiology of Language meeting, virtual.
 173. Schaffert, J., LoBue, C., Hynan, L., **Hart, J.**, Rossetti, H., Carlew, A., White, C., Cullum, M. (2021, January). *Predictors of life expectancy in autopsy-confirmed Alzheimer's disease*. Poster presented at the Texas Alzheimer's Research and Care Consortium (TARCC) 2021 Scientific Symposium, Virtual.
 174. Scott, B., Royall, D., **Hart, J.**, Julayanont, P., Hilsabeck, R. (2021, January). *Predictive utility of cognitive intraindividual variability in the TARCC Hispanic longitudinal cohort*. Poster presented at the Texas Alzheimer's Research and Care Consortium (TARCC) 2021 Scientific Symposium, Virtual.
 175. Schaffert, J., Didehbani, N., LoBue, C., **Hart, J.**, Lacritz, L.H., Rossetti, H., Motes, M., & Cullum, C.M. (2021, February). *Neuropsychological functioning in aging retired NFL players*. Paper presented at the 49th Annual Meeting of the International Neuropsychological Society, San Diego, CA.
 176. Meredith-Duliba, T., Schaffert, J., Didehbani, N., **Hart, J.**, Rossetti, H., LoBue, C., & Cullum, C.M. (2021, February). *Depressive symptoms and head injury exposure in cognitively normal retired NFL players*. Paper presented at the 49th Annual Meeting of the International Neuropsychological Society, San Diego, CA.

177. Schaffert, J., LoBue, C., Hynan, L., Hart, J., Rossetti, H., Carlew, A., Lacritz, L., White, C., & Cullum, C.M. (2021, January). *Predictors of life expectancy in autopsy-confirmed Alzheimer's disease*. Poster presented at the Texas Alzheimer's Research and Care Consortium (TARCC) 2021 Scientific Symposium, Virtual.
178. Schaffert, J., Goette, W., LoBue, C., Didehbani, N., **Hart, J.**, Cullum, M. (2021, November). History of Traumatic Brain Injury and the Course of Neuropsychiatric Symptoms Among Those with Autopsy-Confirmed Alzheimer's Disease. Poster at the National Academy of Neuropsychology (NAN) 41st Annual Conference, November 2021, Washington, D.C. (published in Archives of Clinical Neuropsychology)
179. Meredith-Duliba, T., Longoria, A., Mokhtari, B., Hershberger, M., Champagne, T., **Hart, J.**, Cullum, C.M., LoBue, C. (2021, November) Effects of Sex on Concussion-related Symptom Reporting in a Diverse Adult Clinical Sample Using the Texas Postconcussion Symptom Inventory. Poster at the National Academy of Neuropsychology (NAN) 41st Annual Conference, November 2021, Washington, D.C. (published in Archives of Clinical Neuropsychology)
180. Longoria, A., Mokhtari, B., Meredith-Duliba, T., Hershberger, M., Champagne, P., Hart, J., Cullum, M., LoBue, C. (2021, November) The Texas Postconcussion Symptom Inventory (TPSI): An exploratory factor analysis and reliability analysis. Poster at the National Academy of Neuropsychology (NAN) 41st Annual Conference, Washington, D.C. (published in Archives of Clinical Neuropsychology)
181. Conley, M., Schaffert, J., Cullum, C.M., Hart, J., Didehbani, N. (2021, May). An Exploratory Study of Race-Adjusted Normative Data in Former NFL Players. Poster presented at the 2021 SNS Symposium, Virtual. (published in Archives of Clinical Neuropsychology)
182. Chiang, HS, Kraut, M., Vanneste, S., **Hart, J.** (2021, December 6-9). Modulation of the superior medial frontal cortex using anodal high definition transcranial direct current stimulation affects frontal midline theta oscillations during a Go-Nogo task in veterans with chronic traumatic brain injury. 4th International Brain Stimulation Conference, Charleston, SC.
183. Chiang, H.-S., Fratantoni, J., Vanneste, S., Kraut, M., **Hart, J.** (2022, April 2-7). Treating word finding difficulty in multiple sclerosis using high definition transcranial direct current stimulation targeting the pre-Supplementary Motor Area. Poster presentation at the 74th American Academy of Neurology Annual Meeting, Seattle, WA.
184. Helphrey, J., Fatima, J., Parker, A., Longoria, A., Conley, M., Schaffert, J., **Hart, J.**, Chiang, H.-S., Cullum, C.M., & LoBue, C. (2022, February 2-4). Predicting time to loss of independence in Alzheimer's Disease. Paper presentation for the International Neuropsychological Society (INS) Annual Meeting, Virtual.
185. Schaffert, J., Didehbani, N., LoBue, C., **Hart, J.**, Motes, M., Rossetti, H., Lacritz, L., & Cullum, C.M. (2022, February 2-4). No association between later-in-life neuropsychological functioning, age state playing tackle football, and total years played among older retired professional football players. Poster presented at the 50th Annual Conference of the International Neuropsychological Society (INS), Virtual.
186. Fatima, H., Schaffert, J., Hynan, L.S., LoBue, C., Parker, A., Helphrey, J., Goette, W., Lacritz, L., **Hart, J.**, & Cullum, C.M. (2022, February 2-4). Predictors of time to nursing home placement among patients with dementia in the National Alzheimer's Coordinating Center database. Poster presented at the 50th Annual Conference of the International Neuropsychological Society (INS), Virtual.
187. Conley, M., Schaffert, J., Cullum, C.M., **Hart, J.**, & Didehbani, N. (2022, April 21-23). Influence of different normative reference standards among cognitively normal former NFL players. Abstract submitted to the Sports Neuropsychological Society's (SNS) 10th Annual Concussion Symposium, Dallas, TX.

188. Schaffert, J., LoBue, C., Wilmoth, K., Didehbani, N., **Hart, J.**, & Cullum, C.M. (2022, April 21-23). Age, head-injury exposure, and neurocognitive functioning among older NFL retirees. Abstract submitted to the Sports Neuropsychological Society's (SNS) 10th Annual Concussion Symposium, Dallas, TX.
189. Schaffert, J., Goette, W., Didehbani, N., LoBue, C., Lacritz, L., **Hart, J.**, Rossetti, H., & Cullum, C.M. (2022, May 12). The impact of traumatic brain injury on the course of neuropsychiatric symptoms in autopsy-confirmed Alzheimer's disease. Poster presented at the Texas Alzheimer's Research Care & Consortium (TARCC) 2022 Scientific Symposium, Austin, TX.
190. Schaffert, J., Didehbani, N., LoBue, C., **Hart, J.**, Lacritz, L., Rossetti, H., & Cullum, C.M. (2022, May 12). Neuropsychological functioning and head-injury exposure in aging professional football players. Poster presented at the Texas Alzheimer's Research Care & Consortium (TARCC) 2022 Scientific Symposium, Austin, TX.
191. Helphrey, J.H., Fatima, H., Conley, M., Sawyer, J., Schaffert, J., Palka, J., Rossetti, H., Carlew, A., Cullum, C.M., Lacritz, L., **Hart, J.**, & LoBue, C. (2022, October 12-15). Predicting time to loss of independent living in Alzheimer's clinical syndrome. Poster presentation at the National Academy of Neuropsychology (NAN) 42nd Annual Conference, Denver, CO.
192. Devora, P.V., Motes, M., Hilsabeck, R.C., Gonzales, M.M., DeToledo, J, Maestre, G., **Hart, J. Jr.** (2023, January 26). Analyzing Direct Effects of Various Demographic Variables Between Cognitively Intact Hispanic Mexican Americans and Non-Hispanic Whites on Boston Naming Test Performance. Poster presentation for the Texas Alzheimer's Research and Care Consortium (TARCC) 2023 Scientific Symposium, Austin, TX.
193. Devora, P.V., Motes, M., Hilsabeck, R.C., Gonzales, M.M., DeToledo, J, Maestre, G., **Hart, J. Jr.** (2023, February 25). Analyzing Direct Effects of Various Demographic Variables Between Cognitively Intact Hispanic Mexican Americans and Non-Hispanic Whites on Boston Naming Test Performance. Poster presentation for the Dallas Aging and Cognition Conference 2023, Dallas, TX.
194. Helphrey, J.H., Palka, J., Rossmango, J., Fatima, H., Conley, M., Longoria, A., Sawyer, J.D., Schaffert, J., Carlew, A., Cullum, C.M., Lacritz, L., **Hart, J.**, Chiang, H., Nguyen, T., Khera, A., & LoBue, C. (2023, February 1-4). Machine learning algorithm to predict duration to full time care after Alzheimer's disease diagnosis. Poster presentation for the 51st Annual North American Meeting of the International Neuropsychological Society (INS), San Diego, CA.
195. Schaffert, J., Chiang, H.-S., Fatima, H., LoBue, C., **Hart, J.**, & Cullum, C.M. (2023, February 1-4). Traumatic brain injury does not alter the course of neurocognitive functioning later in life. Paper presentation for the 51st Annual North American Meeting of the International Neuropsychological Society (INS), San Diego, CA.
196. LoBue, C., Didehbani, N., Chiang, H.-S., **Hart, J.**, Helphrey, J., Conley, M., Smernoff, E., Lacritz, L., Reese, C., Cullum, C.M., Marshall, C., Nguyen, T., Kelley, B.J., Khera, A., Frolov, A., Martinez, N., & Logan, R. (2023, February 1-4). Preliminary evidence of a therapeutic effect of electrical neuromodulation on cognitive deficits in patients with mild cognitive impairment. Poster presentation for the 51st Annual North American Meeting of the International Neuropsychological Society (INS), San Diego, CA.
197. Chiang, H.-S., Lydon, L., Hart, J., Jr., Kraut, M., Mudar, R.A. (2023, April, 22-27). What's changing from normal aging to pathological aging during semantic memory retrieval: insights from EEG oscillations. Accepted as oral presentation at American Academy of Neurology (AAN) 2023 Annual Meeting, Boston, MA.
198. Helphrey, J., Cabrera, H., Neaves, S., Ahmed, D., Chiang, H., Thakkar, V., Peters, M., McClintock, S., Hart, J., LoBue, C. (2023, October 25-28). Preliminary outcomes on depression symptoms in a randomized controlled trial of high-definition transcranial direct current stimulation in Alzheimer's Dementia. Accepted

- for poster presentation at the National Academy of Neuropsychology (NAN) 43rd Annual Conference, Philadelphia, PA.
199. Ahmed, D., Helphrey, J., Cabrera, H., Neaves, S., McClintock, S., Hart, J., Chiang, H., Lacritz, L., Cullum, M., LoBue, C. (2023, October 25-28). Preliminary neuropsychological outcomes in a randomized controlled trial of high-definition transcranial direct current stimulation in Alzheimer's Clinical Syndrome. Accepted for poster presentation at the National Academy of Neuropsychology (NAN) 43rd Annual Conference, Philadelphia, PA.
200. Neaves, S., Helphrey, J., Cabrera, H., Lacritz, L., Schaffert, J., Smernoff, E., Logan, R., Nguyen, T., Khera, A., Hart, J., Cullum, M., Lobue, C. (2023, October 25-28). History of Mild Traumatic Brain Injury is Not Associated with Worse Neuropsychological Functioning in Amnesic Mild Cognitive Impairment. Accepted for poster presentation at the National Academy of Neuropsychology (NAN) 43rd Annual Conference, Philadelphia, PA.
201. Adhikari, A., Brooks, J., Watson, K., Morris, E., LoBue, C., Motes, M., Cullum, C. M., Hart, J., Chiang, H. S. (2023, October 25-28). Self-reported loss of consciousness predicts executive functions in veterans with a history of traumatic brain injury. Accepted as poster presentation at the National Academy of Neuropsychology (NAN) 43rd Annual Conference, Philadelphia, PA.

INVITED LECTURES AND PRESENTATIONS

"Visual and category-specific deficits in knowledge representations." Baltimore-Washington Area Neuropsychology Group, Baltimore, February, 1988.

"Current understanding of the functions of the left temporal neocortex." Special Lecture, Japanese Society of Aphasiology, 13th Annual Meeting, Hamamatsu, Japan, November, 1989.

"Disorders of language." Clinical Neurosciences and Brain Pathophysiology Lectures, Division of Neuroradiology, The Johns Hopkins Hospital, December, 1990.

"Semantic and semantic-to-phonology impairments detected with direct electrical cortical interference." Cognitive Neuroscience Seminar, Department of Neurology, The Johns Hopkins Hospital, October, 1991.

"Access to phonology from the visual system: Functional and anatomic correlations." Neurobiology of Language Seminar, The Zanvyl Krieger Mind/Brain Institute, February, 1992.

"Categorical organization of object knowledge: Functional and neural bases." Neuropsychology Seminar, Department of Neurology, University of Maryland School of Medicine, March, 1992.

"The nature of the mental vocabulary." Probing the Mysteries of the Human Brain Course, The Smithsonian Institute, June, 1992.

"The neurobehavior of severe aphasia and implications for augmentative and alternative communication." International Society for Augmentative and Alternative Communication, Fifth Biennial Conference, Philadelphia, PA, August, 1992.

"Naming impairments studied through direct cortical electrical stimulation and surgical lesions." World Federation of Neurology, London, Ontario, October, 1992.

"Organization of object knowledge and its influence on aphasic deficits." Department of Communication Disorders, Kennedy Krieger Institute, March 1, 1993.

"Neuroanatomical localization of word meaning." Neurology Grand Rounds, Department of Neurology, University of Maryland School of Medicine, November 17, 1993.

"Categorical organization of object knowledge." Psychology Seminar, Department of Psychology, Carnegie-Mellon University, September, 1994.

"Categorical organization of object knowledge." Center for Neuroscience Program Retreat, University of Pittsburgh, September, 1994.

"Language - the basis for human communication." The Smithsonian Institute Campus-on-the-Mall, Montgomery County Center, December, 1994.

"Categorical organization as studied through lesions and cortical stimulation." Baltimore-Washington Area Neuropsychology Group, Baltimore, December, 1994.

"Object knowledge in the human brain." Neurobiology Seminar, Department of Neurobiology, Texas A&M University, April, 1995.

"Categorical organization of object knowledge: Implications for neurosystems." Neurology Grand Rounds, Department of Neurology, The Johns Hopkins University School of Medicine, May, 1995.

"Categorical organization of object representation in humans." David Bodian Seminars in Neuroscience, Zanvyl Krieger Mind/Brain Institute, The Johns Hopkins University, September 18, 1995.

"Object representation in the visual system." Functional Imaging Retreat, Department of Radiology, The Johns Hopkins University School of Medicine, July, 1995.

"Visual object recognition." Topics in Neuropsychology, Kennedy Krieger Institute, February, 1996.

"Object recognition in the human visual and verbal systems." Advisory Council Meeting, The Zanvyl Krieger Mind/Brain Institute, December, 1996.

"Object processing in the verbal and visual systems." Laboratory of Neuropsychology. National Institute of Mental Health, February, 1997.

"Alzheimer's disease: Current therapies." Medical Grand Rounds, Peninsula General Hospital, March 18, 1997.

"Alzheimer's disease: An update." Psychiatry Grand Rounds, Harford Memorial Hospital, May 8, 1997.

"Functional neuroimaging." Clinical Neurosciences and Brain Pathophysiology Lectures, Division of Neuroradiology, The Johns Hopkins Hospital, May 14, 1997.

"Neural correlates of language comprehension." Neurology Grand Rounds, The Johns Hopkins Hospital, December 10, 1998.

Course Director, "Neuropsychiatry Colloquium on Alzheimer's disease." The Johns Hopkins University School of Medicine, November 21, 1998.

"Alzheimer's disease and related cognitive functions: an update." Neurology Grand Rounds, Medical College of Virginia, April 29, 1999.

"Where we see what we see." First F.M. Kirby Symposium on Functional Brain Imaging, F.M. Kirby Center for Functional Brain Imaging, May 11, 1999.

"Dementia: Diagnosis and Management." Tenth Annual Neurology for the Primary Practitioner, Johns Hopkins University School of Medicine, December 11, 1999.

"Treatment options, prescription and OTC." Alzheimer's Disease Educational Program, Novartis Preceptorship, The Johns Hopkins Hospital, March 14, 2000.

"Neural substrates of semantics." University of California, Berkeley. Dept. of Psychology, April, 2000.

"Dementia: Diagnosis and neuroimaging update." Clinical Neurosciences and Brain Pathophysiology Lectures, Division of Neuroradiology, The Johns Hopkins Hospital, December, 2000.

"Neural substrates of semantics." Oberlin College. Dept. of Psychology, December, 2000.

"Overview of services available at the F. M. Kirby Research Center for Functional Brain Imaging." Grand Rounds, Kennedy Krieger Institute, January, 2001.

"Investigations into mechanisms of word finding." Neurology Grand Rounds, The Johns Hopkins University School of Medicine, January 18, 2001.

"Neural substrates of semantics." Neuropsychiatry Conference, Dept. of Psychiatry, The Johns Hopkins University School of Medicine, February 8, 2001.

"Semantics and the structure of knowledge." American Neuropsychiatric Association, 12th Annual Meeting, February 26, 2001.

"Mechanisms of semantic memory and implications for word finding." Neurology Grand Rounds, Medical College of Virginia, March 8, 2001.

"Semantic memory: Temporal dynamics and recall mechanisms." Clinical Neuroscience Research Seminars, NIH, NINDS, April, 2001.

"Semantic Knowledge (Electrophysiology and fMRI)." Behavioral Neurology: Issues in Cognitive Neuroscience, AAN, Philadelphia, PA, April, 2001.

"Infections of the mind." Medicine Grand Rounds, Karolinska Institute, Stockholm, Sweden, June 2, 2001.

"Semantic organization: evidence from electrophysiological and functional imaging studies." MR Research Center, Karolinska Institute, Stockholm, Sweden, June, 1, 2001.

"Semantic memory mechanisms: Implications for word finding difficulties in aging and dementia." Reynolds Center on Aging, University of Arkansas, June, 27, 2001.

"Memory and Herpes Simplex Encephalitis." Annual CASG Meeting, Bethesda, Maryland, Feb., 2002.

"Neural Mechanisms of Object Memory." Neurology Grand Rounds, University of Arkansas, 2002.

"Semantic Knowledge (Electrophysiology and fMRI)." Behavioral Neurology: Issues in Cognitive Neuroscience, AAN, Denver, CO, April 14, 2002 (Course Director).

“Neural activation during an explicit categorization task: category- or feature-specific effects?” World Federation of Neurology, Villefranche, France, May 30, 2002.

“Object activation from features in semantics as demonstrated by fMRI and electrophysiology studies.” World Federation of Neurology, Villefranche, France, May 29, 2002.

”Neuropsychological Sub-Study Summary.” Annual European CASG Meeting at the Karolinska Institute, Stockholm, Sweden, June 4, 2002

“Neuroimaging.” Linking Geriatric Mental Health to Research Practice, MIRECC, Little Rock, AR, June 13, 2002.

“Memory Models and Implications for Alzheimer’s Disease.” First Annual UAMS Alzheimer’s Disease Research Day, Donald W. Reynolds Center on Aging, Little Rock, AR, September 13, 2002.

“The Non-Alzheimer’s Dementias.” Dementia Update 2002, UAMS Department of Neurology, Little Rock, AR, November 1, 2002.

“Semantic Memory: Normal Aging Psychiatric and Neurologically-Impaired Patients.” Olin Neuropsychiatry Research Center, Yale University School of Medicine Department of Psychiatry, Hartford, CT, March 19, 2003.

“Early Alzheimer’s Disease.” Alzheimer’s Association of Arkansas, Little Rock, AR, March 24, 2003.

“Semantic Memory.” Behavioral Neurology: Issues in Cognitive Neuroscience Course, American Academy of Neurology, Honolulu, Hawaii, March 31, 2003 (Course Director).

“AD: Where do we begin, and when do we end.” UAMS/UALR Department of Audiology and Speech-Language Pathology Workshop, Little Rock, AR, May 16, 2003.

“Post-Traumatic Stress Disorder: The Underlying Scientific Evidence.” Neurology Grand Rounds, University of Arkansas for Medical Sciences, Little Rock, AR, September 5, 2003.

“Neurological Reasons for Weight Loss.” Arkansas Medical Director’s Association, Little Rock, AR, October 4-5, 2003.

“HSE: Neuroanatomy vs. Neuropsychology and Symptomatology.” Third Annual HSE Meeting at the Karolinska Institute and Hospital, October, 8, 2003.

“HSE: A Model Disease to Understand Neuroanatomy and Semantic Memory.” Department of Infectious Disease, Karolinska and Huddinge University Hospitals, October 9, 2003.

“The Dementias: An Overview.” Dementia Update 2003, UAMS Department of Neurology, Little Rock, AR, November 14, 2003.

“Society for Behavioral and Cognitive Neurology Workshop.” Co-Chair, American Neuropsychiatric Association, Bal Harbour, FL, February 21, 2004.

“Glutamate in cognitive neuropsychiatry: emerging perspectives and prospects.” American Neuropsychiatric Association, Bal Harbour, FL, February 21, 2004.

“Semantic Memory: Implications for Neuropsychiatric Disease.” Neurology Grand Rounds, University of Arkansas, Dept. of Neurology, April 2, 2004.

“Semantic Memory and Alzheimer’s Disease.” Psychiatry Grand Rounds, University of Oklahoma, Dept. of Psychiatry, April 15, 2004.

“Cognitive Dysfunction in PTSD.” Best Practices in the Continuum of Care: Mental Health in Older Adults, GRECC/AGEC, Little Rock, April 21, 2004.

“Scientific Highlights: Behavioral Neurology and Dementia.” American Academy of Neurology, San Francisco, CA, April 29, 2004.

“Semantic Memory.” Behavioral Neurology: Issues in Cognitive Neuroscience Course, American Academy of Neurology, San Francisco, CA, May 1, 2004 (Course Director).

“Memory.” Mini-Medical School, University of Arkansas, May 6, 2004.

“Neural Basis of Semantic Memory: Implications for Neuropsychiatric Disease.” UAMS Alzheimer’s Disease Center Seminar Series, UAMS, May 11, 2004.

“Dementia and Alzheimer’s Disease.” Philippine Medical Association of Oklahoma, The Oklahoma Department of Mental Health and Substance Abuse Services, May 15, 2004.

“Semantic Memory and the Neural Hybrid Model.” Department of Speech Pathology and Audiology, University of Queensland, Brisbane, Australia, July, 2004.

“New Advances in Alzheimer’s Treatment.” Baptist Medical Center, Medical Grand Rounds, Little Rock, AR, August 18, 2004.

“Update on Treatment of Dementia.” Arkansas Medical Director’s Association Educational Symposium, Little Rock, AR, October 2, 2004.

“Memory in Aging and Degenerative Diseases.” Geriatrics: Memory and Function Course, Department of University Rehab, UAMS, Little Rock, AR, November 6, 2004

“Semantic Memory Functions: Insights into Cognitive Impairments.” Behavioral Neurology: Issues in Cognitive Impairment Course, American Academy of Neurology, Miami, FL, April 15, 2005 (Course Director).

“Delirium and Dementia.” Physical Medicine and Rehabilitation Seminar, CAVHS, North Little Rock, AR, April 19, 2005

“Semantic Memory: Implications for Neuropsychiatric Disorders.” Psychiatry Grand Rounds, UAMS, Little Rock, AR, April 21, 2005.

“Nonverbal Sound Memory and Implications for Neuropsychiatric Disease.” Neurology Grand Rounds, UAMS, Little Rock, AR, May 6, 2005.

“Semantic Memory: Implications for Neuropsychiatric Disease.” Neurology Grand Rounds, Oklahoma University Health Sciences Center, Department of Neurology, Oklahoma City, OK, October, 2005.

“Semantic Memory: Implications for Neuropsychiatric Disease.” Neurology and Psychiatry Grand Rounds, University of Texas at Southwestern, School of Medicine, Dallas, TX, October, 12, 2005.

“Memory Glitches and Senior Moments.” Institute for Interesting People, Dallas, TX, January 31, 2006.

“Update on Memory and Alzheimer’s disease.” Neurology Grand Rounds, University of Kansas, Department of Neurology, Kansas City, KS, February 10, 2006.

“Behavioral Neurology: Insights in Cognitive Impairments.” American Academy of Neurology, San Diego, CA, April 3, 2006 (Course Director).

“Understanding Memory Loss in Alzheimer’s Disease.” Friends of the Alzheimer’s Association, University of Texas Southwestern Medical Center, April 11, 2006.

“Advanced Imaging Technologies in Neurologic Practice.” Opportunities Rising in Academic Neurology Seminar, Association of University Professors of Neurology, Leadership Course, Chicago, October, 2006.

“Reimbursement/Training Issues.” MCW Workshop: Presurgical Mapping Using fMRI and DTI, Chicago, November, 6, 2006.

“Neural Basis of Semantic Memory, . Neurology Grand Rounds, The Johns Hopkins University School of Medicine, Department of Neurology, Baltimore, MD, March 8, 2007.

“Clinical Evaluation of Dementing Disorders.” NER Foundation Symposium, American Society of Neuroradiology, 45th Annual Meeting, Chicago, IL, June, 2007.

“West Nile Virus.” 35th Annual CASG Meeting, Collaborative Anti-Viral Study Group (NIH-NIAID), Bethesda, MD, February, 2008.

“Biotech Discovery to Advance BrainHealth.” Texas Instruments, Dallas, TX, July 15, 2008.

“Imaging of Thought Disorders in Schizophrenia.” National Alliance for Mental Illness, Dallas, TX, August 7, 2008.

“Behavioral Neurology: Contemporary Topics.” American Academy of Neurology, Seattle, WA, April, 2009.

“Fellowship Panel.” American Academy of Neurology, Seattle, WA, April, 2009.

“Functional Neuroimaging and Electrophysiological Correlates of Semantic Memory.” Annual Behavioral Neuroscience Seminar, Harvard Institutes of Medicine, Cambridge, MA, April 2, 2009.

“Gulf War Illness.” Gulf War Advisory Committee, Washington, D.C., May, 6, 2009

“Memory Storage and Retrieval: Implications for Psychiatric Disorders.” Grand Rounds, Department of Psychiatry, University of Texas Southwestern Medical Center, November 4, 2009.

“Neural Basis of Object Memory.” Neurology Chairman Committee, University of Arkansas for Medical Sciences, November, 16, 2009.

“Object Memory in Neurological Disorders.” Grand Rounds, Department of Neurology, UAMS, Little Rock, AR, 2009.

“Neural Basis of Object Memory.” Callier Brown Bag, Callier Center, The University of Texas at Dallas, Dallas, TX, 2009.

“Neural Basis of Object Memory.” Center for BrainHealth Brown Bag, The University of Texas at Dallas, Dallas, TX, 2009.

“Memory Dysfunction in Neurotoxic Exposure,” Grand Rounds, Department of Neurology, University of Texas Southwestern Medical Center, February 3, 2010.

“Neuroscience, Learning, and Critical Thinking.” Raytheon ELCAN Optical Technologies Corporation Retreat, University of Texas Southwestern Medical Center, August 13, 2010.

“Memory, Dementia, and Brain Health.” The 11th Annual Neuroscience Update, Four Seasons Resort, Dallas, TX, September 17, 2010.

“Updates in Alzheimer’s Disease Treatments.” AWARE Alzheimer’s Disease Group, Dallas, TX, September 13, 2010.

“Memory, Dementia, and BrainHealth.” 11th Annual Neuroscience Update, Dallas, TX, September, 17, 2010.

“Neural Hybrid Model of Semantic Memory.” Rice University Department of Psychology Colloquium, Houston, TX, October 8, 2010.

“Memory and Aging.” Keynote Address, Pilot International Conference, Dallas, TX, July 15, 2011.

“Brain Computer Interface and Future Directions.” The Analog Circuits Symposium, TxACE Analog Symposium, Dallas, TX, October 24, 2011.

“New Approaches to Help Returning Warriors Home.” The Rotary Club of Park Cities, Dallas, TX, November 11, 2011.

“Neural Basis of Semantic Memory.” Tulane University Department of Psychology Colloquium, New Orleans, LA, November 18, 2011.

“PTSD.” Plano Rotary Club, Plano, TX, February 15, 2012.

“Memory Retrieval Circuits: Implications for Neuropsychiatric Disease.” Grand Rounds, Department of Psychiatry, University of Texas Southwestern Medical Center, Dallas, TX, March 12, 2014.

“Multidisciplinary Management of Persistent Problems following Sports Concussion.” Sports Neuropsychology Concussion Symposium, Sports Neuropsychology Society, April 25, 2014.

“Emotional Features in Semantic Memory.” Neuroscience Research Conference, University of Texas at Dallas, Dallas, TX, June 6, 2014.

“Beyond the Test Tubes: Skill Sets for Scientific Success in America.” Austin College, Sherman, TX, April 6, 2017.

“PTSD as a Memory Disorder.” Grand Rounds, Department of Neurology and Neurotherapeutics, University of Texas Southwestern Medical Center, Dallas, TX, May 17, 2017.

“New Approaches to Brain Stimulation for Clinical Purposes.” Brain Symposium *Neuroimaging is a Team Sport: The Promise of Multimodal Imaging and Cross-Institutional Collaborations*, University of Texas Southwestern Medical Center Peter O’Donnell Jr. Brain Institute, Dallas, TX, January 26, 2018.

“Careers in Neurology.” Student Interest Group in Neurology, University of Texas Southwestern Medical Center, Dallas, TX, March 5, 2018.

“Longitudinal Continuation of TARCC Hispanic Cohort.” Texas Alzheimer’s Research and Care Consortium (TARCC) Symposium, Austin, TX, January 31, 2019.

“PTSD as a Semantic Memory Disorder.” Callier Center for Communication Disorders Friday Seminars in Speech, Language and Hearing (FLASH), Dallas, TX, February 15, 2019.

“Multi-site Confirmatory Efficacy Treatment Trial of Combat-related PTSD,” US Army Military Operational Medicine Research Program (MOMRP) In Progress Review (IPR) Meeting, Fort Detrick, MD, September 25, 2019.

“TARCC Hispanic Cohort: An Update,” Texas Alzheimer’s Research and Care Consortium (TARCC) Symposium, Austin, TX, January 30, 2020.

“Memory Retrieval: From Theory to Treatment,” Winter Camp on Neuroscience and Cognitive Behavior, UTD, Richardson, TX, December 31, 2020.

“Longitudinal Continuation of the TARCC Hispanic Cohort,” Panel Presentation, TARCC 2021 Scientific Symposium – Advances in Alzheimer’s Disease Science, Research, and Care, Austin TX, January 28, 2021.

“Memory Retrieval Mechanisms and Neuromodulation,” Grand Rounds, Department of Neurology, University of Texas Southwestern Medical Center, Dallas, TX, March 17, 2021.

“Risk Factors for Dementia,” Fifth Annual Dementia Update, UAMS, Little Rock Arkansas, December 10, 2021.

“Neuromodulation and Neurorehabilitation,” Panel Presentation, The University of Texas System-wide Brain Research Summit, Austin, TX, November 7-8, 2022.

GRANT AND PROJECT PARTICIPATION

CURRENT:

Principal Investigator, Treatment of Cognitive Deficits in Multiple Sclerosis with High-Definition Transcranial Direct Current Stimulation (\$1,599,996, 6/30/23-6/29/26). 10% effort.

Principal Investigator, Multi-site confirmatory efficacy treatment trial of combat-related PTSD, Department of Defense (\$7,359,925, 8/1/2018 – 7/31/2024). 10% effort.

Principal Investigator, Treatment of Verbal Retrieval Deficits in Mild Traumatic Brain Injury with High Definition Transcranial Direct Current Stimulation, Department of Defense (\$2,022,628, 9/1/2020 – 8/31/2024) 25% effort.

Principal Investigator, Treatment of Memory Disorders in Gulf War Illness with High Definition Transcranial Direct Cortical Stimulation, Department of Defense (\$948,911, 9/30/2016 – 9/29/2023). 5% effort.

Principal Investigator, Longitudinal Continuation of TARCC Hispanic Cohort, Texas Alzheimer’s Research and Care Consortium (TARCC) (\$4,522,439, 8/22/2018 – 8/31/2023). 25% effort

Principal Investigator, Assessment and Treatment of Veterans with TBI and/or PTSD, Boot Campaign (\$1,035,042 direct costs, 9/29/2016 – no end date). 10% effort.

Mentor, Using High Definition transcranial Direct Current Stimulation Guided by Electrophysiology and Diffusion Tensor Imaging to Treat Verbal Retrieval Deficits Secondary to Chronic Traumatic Brain Injury, National Institutes of Health (NIH) National Institute on Deafness and Other Communication Disorders (NIDCD) (\$104,486 per year, 12/15/2022-11/30/2023). (PI, H-s Chiang)

Mentor, Pathways relating amnesic MCI to a mild traumatic brain injury history, National Institutes of Health (NIH) National Institute on Aging (NIA) (\$675,000, 8/1/2022-5/31/2027). (PI, C. LoBue)

Co-Investigator, Modulating brain circuitry to treat word retrieval deficits in amnesic MCI, Texas Alzheimer's Research and Care Consortium (TARCC) (\$328,992 9/1/2022-8/31/2024). (PI, C. LoBue)

FORMER:

Principal Investigator, Retired Professional Athletes Aging and Concussion Study, Rainwater Foundation (\$200,000). 0% effort.

Co-Investigator, Direct Current Stimulation for Pain Treatment in Gulf War Illness, Department of Defense (PI: Vanneste, \$956,198, 7/14/2017 – 7/13/2020). 5% effort.

Co-Investigator, The Effect of Neural-Vascular Coupling Changes on Cognitive Performance in Multiple Sclerosis, National Multiple Sclerosis Society (PI: Rypma, \$494,072, 4/1/2016 – 3/31/2019). 5% effort.

Co-Investigator, Non-invasive Brain Stimulation to Improve Memory Retrieval in Patients with Mild Cognitive Impairment, Darrell K. Royal Research Fund for Alzheimer's Disease (PI: Vanneste, \$156,750, 11/5/2015 – 11/4/2018). 5% effort.

Investigator, Neurobiology of Alzheimer's Disease and Aging - (Genetics of Dementing Brain Diseases) and Genetic and Biomarker Study of Alzheimer's Disease and Alzheimer's Disease Center, Clinical Core, NIH And TARCC. 8% effort.

Principal Investigator, Identifying and Characterizing Auditory Processing Disruptions in Multiple Sclerosis, National Multiple Sclerosis Society (\$692,330, 4/1/2014 – 3/31/2018). 5% effort.

Principal Investigator, Novel Treatment of Emotional Dysfunction, Department of Health and Human Services, (direct costs \$625,000, 12/13 – 6/16). 25% effort.

Principal Investigator, BrainHealth and Repair, DOD (direct costs of project \$723,690). 0% effort.

Co-PI, Non-Contact and Dry-Contact Reconfigurable Electroencephalography, Texas Instruments TxACE Research Advisory Committee (PI, Jafari, \$140,971, 2/12-2/15).

Principal Investigator, Novel Treatment of Emotional Dysfunction, Department of Defense, CDMRP, W81XWH-09-DMRDP-ARATDA, (year 1 direct costs \$750,000, total direct costs \$2,898,003, 5/11-5/14). 25% effort.

Investigator, Modulation of Brain Activity by Control of the Inspired Air, NIH/NINDS R01 (PI, Lu; Hart PI of UTD subcontract, year 1 UTD direct costs \$62,240, total UTD direct costs \$233,516, 8/10-7/14). 8% effort.

Co-PI, Using Gate and Sway Biofeedback to Reduce Falls in the Elderly, NIH R15, (PI, Jafari, \$366,746, 9/11-8/14).

Co-PI, Neural Markers of Cognitive Impairment, Alzheimer's Association, (PI, Mudar, 9/11-8/13). 0% effort.

Co-PI, Enhancing Soldier Performance and Brain Repair Using Virtual Reality Hapto-Robotic Training, Telemedicine and Advanced Research Technology Research Center, TATRC, DOD (Co-PI, Jafari; \$ 94,848, 8/11-8/12). 2% effort.

Mentor, Radiological Biomarkers for Frontotemporal Lobar Degeneration, NIA K23AG030006 (PI: Womack; 5 year total direct costs, \$725,000, 9/30/07-8/31/12). 0% effort.

Co-PI, Staving off Alzheimer's Disease, RGK Foundation, (PI, Mudar, \$250,000, 7/11-7/12).

Collaborator, Middle School Brain Years, Meadows Foundation and State of Texas, (PI, Chapman; 2 year total direct costs \$6,000,000, 9/1/09-8/31/11). 0% effort.

Mentor, TDCS-Enhanced Stroke Recovery and Cortical Regeneration, NIH, (PI, Hodics, 5/8-4/12). 0% effort.

Director, Berman Laboratory in Learning and Memory, Center for BrainHealth, University of Texas at Dallas, (\$700,000). 0% effort.

Protocol Co-Chair, HSE Sub-Study: Correlations of Herpes Simplex Virus (HSV) Viral Load with Neuropsychological Outcomes. NIAID and NINDS (N01-A1-65306, 9/98-12/11; \$43,600 yearly direct; \$221,419 recent 5 year total direct). 5% effort.

Co-PI, Brain and Cognitive Changes after Reasoning or Physical Training in Cognitively Normal Seniors, NIH (year1 direct costs \$379,038, total direct costs \$1,000,000, 9/09-8/11). 3% effort.

Principal Investigator, Word Retrieval in Gulf War Illness, Veterans Administration (year 1 direct costs \$193,180, total costs \$285,740; two year project direct costs \$381,175, total costs \$566,901).

Principal Investigator, Neuropsychiatric Projects, Investigations into Gulf War Illness, Veterans Administration (year 1 direct costs \$1,112,318, total costs \$2,845,766; two year project direct costs \$2,567,897, total costs \$3,917,531).

Principal Investigator, Neuropsychological and Cognitive Paradigm Sub-Core, Investigations into Gulf War Illness, Veterans Administration (year 1 direct costs \$358,101, total costs \$508,660; two year project direct costs \$718,934, total costs \$1,115,593).

Principal Investigator, EEG Sub-Core, Investigations into Gulf War Illness, Veterans Administration (year 1 direct costs \$608,228, total costs \$826, 674; two year project direct costs \$954,251, total costs \$1,376,257).

Co-PI, Emotional Memory Circuits in Gulf War Illness, Veterans Administration (year 1 direct costs \$229,547, total costs \$354,802; two year project direct costs \$442,780; total costs \$677,900).

Co-PI, Complex Verbal Functions and Basal Ganglia, Veterans Administration (year 1 direct costs \$508,407, total costs \$773,664; two year project direct costs \$987,220, total costs \$1,491,168).

Protocol Co-Chair, CASG #211 "Investigation of the Natural History of West Nile Virus Infection in Patients with or at Risk for Progression to West Nile Virus Encephalitis and/or Myelitis." NIAID and NINDS (N01-A1-65306, 9/98-8/08).

Protocol Co-Chair, CASG #210 "A Phase II Randomized Placebo-Controlled Trial to Assess the Safety and Efficacy of Intravenous Immunoglobulin (Omr-IgG-Am™) Containing High Anti-West Nile Virus Antibody Titers in Patients with, or at Risk for Progression to West Nile Virus (WNV) Encephalitis and/or Myelitis." NIAID and NINDS (N01-A1-65306, 9/98-8/08).

Co-PI, (PI, Nestler), Center for Advanced ADHD Research, Treatment, and Education, Sparrow Foundation (7/06-6/09).

Consultant, (PI, Pearson), Quantitative Neuroimaging in Psychosis (NIMH, MH43775-14, 3/1/05-2/28/09).

Co-PI, (PI, Tao), The Role of Prefrontal Cortex and Amygdala in Self-harming Behavior among Depressed Youth, Grants for Collaborative Research UTSW-UTD (5/07-4/08).

Investigator, (PI, Sullivan), Manifestations, causes, and consequences of Protein Energy Undernutrition in elderly TCU residents, Investigator Initiated Research Veterans Administration, (6/05-5/07)

Collaborator, (PI, Assaf), Differential Diagnosis of Psychotic Patients Investigates Activation Patterns Related to Semantic Retrieval in Manic Bipolar and Schizophrenia Patients, and its Relationship to Formal Thought Disorder Severity (Donaghue Foundation, 7/1/05-6/30/08).

Principal Investigator, Monitoring Electrophysiological Changes in Object Recall in Semantic Memory during Feature Binding. GlaxoSmithKline, (10/02-9/06).

Principal Investigator, Predicting Response to Acetylcholinesterase Inhibitors for New Learning and Semantic Memory in Mild Cognitive Impairment and Alzheimer's Disease, MIRECC, 5/04-4/06).

Principal Investigator, Assessment of Object Memory in Normal Aging and Mild Cognitive Decline. Biomedical Research Fund, VA. (6/02-5/05).

Investigator (PI of Core, Liem), Alzheimer's Disease Center, Clinical Core, NIH, (AG-00-002, 8/02-7/05).

Investigator (PI, Chernoff), Geriatric Mental Health on the Move, Arkansas Geriatric Education Center, HRSA, GEC Grant 1D 31 HP80009.

Investigator (PI, Crone), Electrocoricographic Correlates of Language, NIH (R01, 5/01-4/06).

Investigator (PI, Corey) Measuring the Hippocampus: A Comparison of Alternative Methods, MIRECC, (7/01-6/02)

Principal Investigator, AChE Inhibitor Therapy in the Treatment of Cognitive Deficits Associated with Static Brain Lesions. Pfizer-Eisai (9/99-9/02).

Investigator (PI, van Zijl), Resource Center Grant for the F. M. Kirby Research Center for Functional Brain Imaging, NIH (8/01-7/06).

Investigator, Neurobehavioral Research Unit, Kennedy-Krieger Institute. NICHD.

Investigator, fMRI Correlates of Language Recovery in Children Undergoing Left Hemispherectomy. Dana Foundation (7/00-6/03).

Investigator, AchE Inhibitor Therapy in the Treatment of Memory Disorders in Patients with Epilepsy. Pfizer-Eisai (3/01-3/03).

Investigator (PI, Hoehn-Saric), Assessment of Citralazam Treatment for GAD with fMRI, Forrest Laboratories.

Principal Investigator, Verbal and Visual Semantic Object Processing Impairments. K08 DC00099, 4/1/94- 5/31/00.

Investigator, Investigation of Human Cortical Language Maps Using Complementary Functional Localization Techniques: Functional MRI, Cortical Electrical Stimulation, and Electrocoricographic Recordings. Dana Clinical Hypotheses in Neuroscience Research Program, 1/97-1/00.

Investigator, Cognitive and Neuroanatomic Studies of Acquired Dyslexias. NIH RO1 NS 29973, 12/1/92-11/30/98.

Investigator, Metrifonate Investigational Nationwide Trial (MINT). Bayer Pharmaceutical Division, 12/97-12/98.

Investigator, The Efficacy, Safety, and Tolerability of Lazabemide (Ro 19-6327) vs. Placebo, Administered for One Year in Patients with Probable Alzheimer's Disease (NINCDS/ADRDA Criteria) (PDL 1000P, dated 12/2/96). Protodigm, 5/97-12/98.

Investigator, A 24-Week, Multicenter, Randomized, Double-Blind Placebo-Controlled Evaluation of the Efficacy and Safety of Donepezil Hydrochloride (E2020) in Patients with Dementia Associated With Cerebrovascular Disease (E2020-307, 5/5/97). Eisai, Inc., 9/97-12/98.

Investigator, An Open-label, Six Month Extension of SDZ ENA 713 Studies B351 and B352 to Prospectively Evaluate the Long-term Safety, Tolerability, and Efficacy of 1 through 6 mg b.i.d. (2-12 mg/day) SDZ ENA 713 in Outpatients with Probable Alzheimer's disease, Sandoz Pharmaceuticals Corporation, 1/96-12/97.

Investigator, An Open Label, Multicenter Clinical Trial Evaluating the Safety and Efficacy of Donepezil Hydrochloride (E2020) in Patients with Alzheimer's Disease (Protocol #E2020-A001-314), Eisai America, 11/96-12/97.

Investigator, A 54-Week, Randomized, Double Blind, Placebo Controlled Evaluation of the Effects of Donepezil Hydrochloride (E2020) on Functional Outcome in Patients with Alzheimer's Disease With a Staged Crossover to Open Label Donepezil Hydrochloride (E2020) Treatment (Sponsor #E2020-A001-312), Eisai America, 9/96-12/97.

Investigator, A 52-Week, Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Multicenter Study of Milameline (CI979\RU 35926) in Patients with Probable Alzheimer's Disease with Long-Term Open-Label Extension. Protocol 979-15-16, Warner-Lambert Company, 6/96-12/97.

Investigator, An Open-label, Multicenter, Extended Evaluation of the Safety and Efficacy of E2020 in Patients with Alzheimer's Disease. Protocol E2020-A001-303, Eisai America, Inc., 7/94-5/97.

Investigator, Clinical Evaluation of the Safety and Efficacy of AF102B vs. Placebo in the Treatment of Patients with Dementia of the Alzheimer's Type, Protocol #94-001FL-105CR, Forrest Laboratories, 1/95-6/96.

Investigator, Open-label Extension of Study #94-001FL-1005CR to Evaluate Long-Term Administration of AF102B in the Treatment of Patients with Dementia of the Alzheimer Type, Forest Laboratories, Inc, 1/96-9/96.

Investigator, Promoting Recovery after Damage to the Human Brain: What Triggers the Recovery Process. Seaver Foundation, 7/92-7/96.

Investigator, A Prospective, Double-blind, Placebo-controlled, Parallel Group Comparison of the Efficacy and Safety of Two Doses of SDZ 713, 1-4 mg per Day and SDZ ENA 713 6-12 mg per Day in Patients with Alzheimer's disease. Sandoz Pharmaceuticals Corporation, 4/95-5/96.

Investigator, Charles A. Dana Center for Study of Memory and Aging. Dana Foundation, 7/92-7/95.

Investigator, A 30-week, Multicenter, Randomized, Double-blind, Placebo-controlled Evaluation of the Safety and Efficacy of E2020 in Patients with Alzheimer's Disease, Protocol E2020-001-302, Eisai America, 1/94-6/95.

Investigator, A Dose-ranging Study of F102B in Patients with Dementia of the Alzheimer's Type (DAT). Forrest Laboratories.

Investigator, Language Organization Studied by Cortical Stimulation. NINDS R01 NS26553, 4/89-8/95.

Investigator, A Trial of ^{99m}TcTechnetium Bicisate in Healthy Elderly Volunteers and Patients with Mild to Moderate Dementia of the Alzheimer Type, Protocol 198-017, DuPont Merck Pharmaceutical Company, 2/93-6/94.

Investigator, The Neurobiology of Language (extension grant). McDonnell Foundation-Pew Charitable Trusts, 1/93 - 9/93.

Investigator, The Neurobiology of Language. McDonnell Foundation-Pew Charitable Trusts, 1/90-12/92.

Investigator, A Long Term Randomized Placebo Controlled Study of DuP 996 90 and 120 mg Daily in Patients with Mild to Moderate Dementia of the Alzheimer Type (Long-term study) (U.S.A. Study); Protocol 996-025, DuPont Merck Pharmaceutical Company, 10/91-12/93.

Investigator, A Randomized Placebo Controlled Study of DuP 996 90 and 120 mg Daily in Patients with Mild to Moderate Dementia of the Alzheimer Type (U.S.A. Study), Protocol 996-019, DuPont Merck Pharmaceutical Company, 6/91-12/92.

Principal Investigator, Object Representation in Language and Sensory Cortices. McDonnell Foundation-Pew Charitable Trusts, 7/91-6/92.

Investigator, Oxiracetam in the Treatment of Patients with Cognitive Impairment Associated with Dementia of the Alzheimer's Type, SmithKline Beecham, 7/90-1/91.

Investigator, Safety and Efficacy of Long-term Use of Oxiracetam in the Treatment of Patients with Cognitive Impairment Associated with Dementia of the Alzheimer's Type, SmithKline Beecham, 10/90-1/91.

Investigator, Dyslexia Studied by Direct Electrical Cortical Interference in Humans. Seaver Foundation, 7/89-12/91.

Investigator, A Controlled Pilot Trial of Dextromethorphan as Adjunct Therapy for Complex Partial Seizures, Nova Pharmaceuticals.